

ARTIFICIAL BREEDING & EMBRYO TRANSFER SUPPLIES

**REPRODUCTION
RP PROVISIONS
L.L.C.**

**Toll Free (877) 487-4872
Intl +1 (262) 275-8980**

Thank you, Customers !

We strive to continually improve our company and provide you with the finest quality supplies. We appreciate your feedback, questions and suggestions on how we can serve you better in the future.

RETURNED GOODS POLICY

No merchandise is to be returned to without customer requesting and receiving prior approval. All returns are subject to a 10% restocking charge. Return and exchange privileges are granted only upon request, and only on stock merchandise within 90 days of the date of invoice.

PAYMENT TERMS

Cash, check, credit card (VISA, MC, DISC, AMEX), C.O.D., wire transfer or Net 30 days by special arrangement. If you wish to open an account with us, please request an account setup form. Upon completion and review of the form by our credit department we can then place you on open account and bill accordingly. A late charge of 1.5% per month on the unpaid balance will be charged on all accounts over 30 days past due. Orders placed by accounts 60 days past due will not be shipped.

RECEIPT OF DAMAGED MERCHANDISE

Reproduction Resources' orders are filled with merchandise in good condition and carefully packaged in our shipping department. Unfortunately, there are occasions when products are damaged during shipment and arrive in an unacceptable condition. In all such instances, the carrier is responsible for the safe delivery of the merchandise, and any claims for damages must be filed with the carrier.* Please inspect all shipments when they are received, and in case of loss or damage, notify the carrier at once and arrange to file a claim as soon as possible. Keep the container the merchandise was sent in, as it must be inspected by the carrier before settlement of any claim. ICC regulations state that all claims of shortage or breakage must be filed within 10 days after the date of shipment or they will not be honored.

Contact Us

Online: ReproductionProvisions.com

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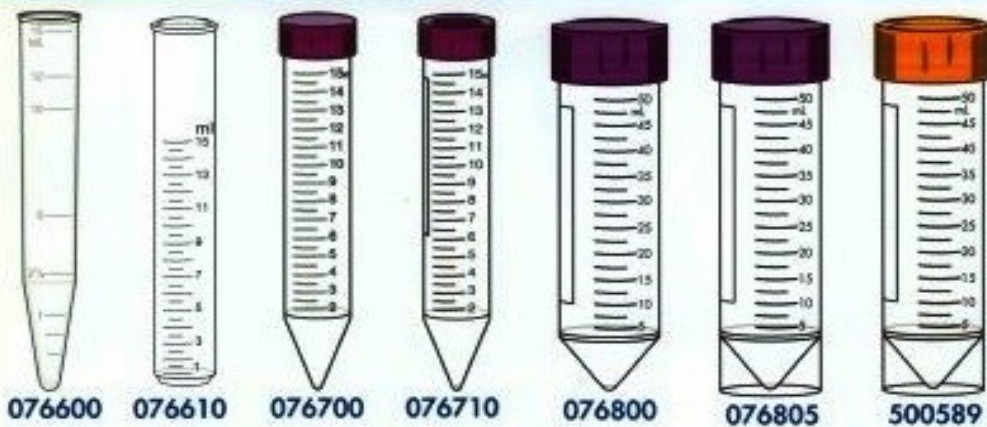
Info@ReproductionProvisions.com

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*Palletized shipments via freight truck should be inspected upon arrival for damage or missing items. Freight shipment claims are filed by the shipper (Reproduction Resources), and our offices should be contacted immediately upon discovery of loss or damage. Receiver's signature on a complete bill of lading indicates shipment received in good order. Please inspect! Any external evidence of loss or damage must be noted on the freight bill and signed by the carrier's agent. Failure to do this may cause the claim for loss or damage to be disallowed. Advise us promptly of any shortages in shipments.



076600 076610 076700 076710 076800 076805 500589

DOCKING RINGS & PARAFILM

Docking rings, (otherwise known as castration bands) are the ideal device for holding 15ml centrifuge tubes to disposable collection cones during semen collection. The small band creates a good hold and snug seal between the two products. Weight-packaged 100/bag. May also be used for tail docking or castration. Parafilm is used on the threads of centrifuge tubes (or similar threaded cap-on-tube applications) to create a better cap seal - primarily when using centrifuge tubes to ship or store liquids such as extended semen. It is sold on a roll much like packaging tape for ease in dispensing.

- 101050 Docking Rings (100/pk)
- 076000 Parafilm Sealing Film - 4" x 125' roll (each)

CENTRIFUGE TUBES, 15ml GRADUATED

15ml graduated centrifuge tubes - with cap or without cap. Both are a conical bottom tube with measurement graduations indicating approximate volume. The version with cap has a threaded top including a screw-on cap, most commonly used when shipping samples or for storage. The 'Plug Cap' style incorporates a wrapped seal within the cap. All capped versions of these tubes have black printing for ease in reading volumes. The capped tubes are also available in a sterilized version.

- 076600 Centrifuge Tube, Disposable - 15ml (100/pk)
- 076610 Glass Graduated Collection Tube - 15ml (each)
- 076700 Centrifuge Tube w/Cap, Disposable - 15ml (100/pk)
- 076710 Centrifuge Tube w/Plug Cap, Disposable - 15ml (50/pk)
- 076725 Centrifuge Tube w/Cap, Disposable, Individ. Wrapped & Sterilized - 15ml (25/pk)
- 076900 Centrifuge Tube Rack, 16-place - 50ml (each)

CENTRIFUGE TUBES, 50ml GRADUATED

50ml centrifuge tubes are used for spinning, extending and shipping semen. They can also be used as a storage vessel when aliquoting larger volumes of liquid (extender) into smaller, usable volumes or as an outer insulation sleeve for 15ml centrifuge tubes. These tubes have conical bottoms and are graduated for approximate volume. Available with a standard or skirted base. The skirted base allows the tubes to stand freely. All versions have black printing for easy reading.

- 076800 Centrifuge Tube w/Cap, Disposable, gamma irradiated - 50ml (50/pk)
- 076802 Centrifuge Tube w/Cap, Disposable, indiv. wrapped & gamma irradiated - 50ml (50/pk)
- 076805 Centrifuge Tube w/Cap, Skirted Disposable, gamma irradiated - 50ml (50/pk)
- 500588 Centrifuge Tube w/Cap, Disposable, gamma irradiated - 50ml (Corning™ brand) (25/pk)
- 500589 Centrifuge Tube w/Cap, Skirted Disposable, gamma irradiated - 50ml (Corning™ brand) (25/pk)

COLLECTION/END CONES

Collection cones come in two varieties - disposable polyethylene and washable/reusable (latex or silicone). We offer both with varying options. The closed-end disposable polyethylene cone (077000) is clear and bottle-shaped, with an open end 4-3/8" across, the rounded closed end is 1-3/8" across and the overall length is 11-1/2". The SatinPocket™ (077020) is a 14" closed-end version with an ultra-satiny feel and smoother edges - ideal for dogs that are sensitive and difficult to collect with the standard disposable plastic version. The disposable open-ended version (077010) is conical-shaped with a pre-cut open end. The extra-long, soft cone (077015) is a bovine cone 20" in length made of a soft plastic. The latex variety is available in either a Lightweight or Heavyweight version, the difference being the thickness of latex. These are washable and reusable (care instructions on each piece). We also offer the 'Shape-holder' latex and silicone models with rolled-cuff ends, which aid in holding the cone open in its natural state.

- 077000 Disposable Collection Cone, Polyethylene [closed-end] (100/pk)
- 077014 Disposable Collection Cone, Polyethylene [open-end] (100/pk)
- 077020 Disposable Collection Cone, SatinPocket™ [closed-end] (25/pk)
- 077015 Disposable Collection Cone, Soft Extra-Long [closed-end] (20/pk)
- 077100 Lightweight Latex Collection Cone (each)
- 077110 Heavyweight Latex Collection Cone (each)
- 11024/0000 Shape-holder Latex Collection Cone w/Rolled Cuffs (each)
- 614640 Silicone Collection Cone w/Rolled Cuffs [autoclavable] (each)

See the following catalog page for care and maintenance instructions to keep your latex cones and liners in top condition.



076915



076001



101050



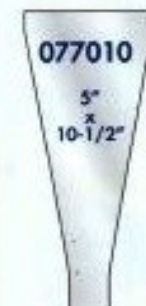
077000

4-3/8"
x
11-1/2"



077020

4-3/8"
x
14"



077010

5"
x
10-1/2"



077015

4-3/8"
x
20"



077100



077110

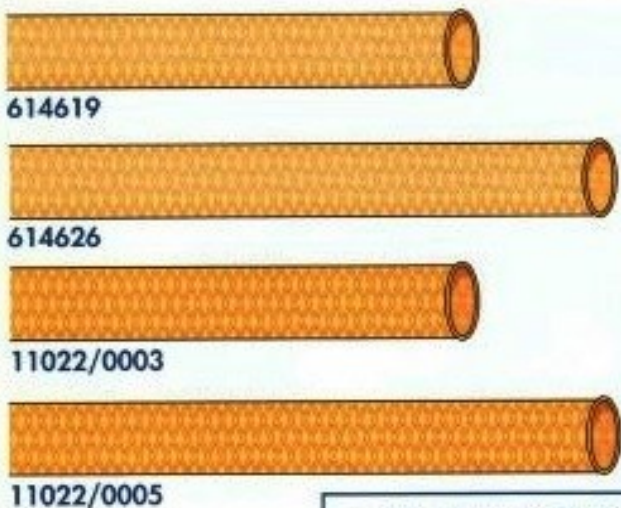


11024/0000

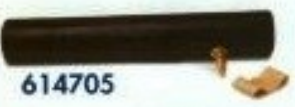


614640

COLLECTION EQUIPMENT / LINERS / A.V.S



Many of the latex liners are listed with 'Rough' in the description. This refers to the striation texture pattern of the liner, as seen above.



LATEX LINERS & COMBINATION CONE/LINERS

Reproduction Resources carries a variety of latex liners for various models of artificial vaginas for many species – including cattle, sheep, goats, dogs, horses, alpacas, etc. The liners come in various lengths, diameters and textures. Please contact us for complete information if you are unable to find what you're looking for in the below listing. All are sold individually and made from natural latex material. These latex liners are washable and reusable. The uncut liners (*614615, *614616) are very popular nontextured liners for those with custom built or specialty A.V.s because they come as a full ten foot length that can be cut to suit most any length artificial vagina. The Semen Collector Handle (*614720) is used to hold a collection cone (whether latex, silicone, or disposable) in place under the animal. The Collection Jacket is used as an insulator and support, enclosing the collection cone and tube during the collection process. Heavy duty full-length zipper for ease in use along with a velcro strap at the top that enables the jacket to cinch onto the AV tube.

NOTE: Equine latex and disposable liners can be found in the Equine/Horse section of this catalog.

- 614619 Latex AV Liner, Large Diamond with Rolled Cuffs - 19"
- 614626 Latex AV Liner, Large Diamond with Rolled Cuffs - 26"
- 11022/0005 Latex AV Liner, Large Diamond, heavyweight with Rolled Cuffs - 19" (Minitube Germany)
- 11022/0003 Latex AV Liner, Large Diamond, heavyweight with Rolled Cuffs - 26" (Minitube Germany)
- 614680 Liner, English - Smooth, 26" heavyweight
- 614615 Inner AV Liner - Smooth, Uncut 10 ft length x 3" diameter
- 614616 Inner AV Liner - Smooth, Uncut 10 ft length x 3.5" diameter
- 615011 Latex AV Liner - Smooth, 12" length, 3" diameter [sheep]
- 614720 Semen Collector Handle
- 077205 Collection Jacket (padded insulated collecting cover w/zipper)

TAKE CARE OF THOSE LATEX PRODUCTS!

Manufacturers recommend that latex liners be thoroughly cleaned prior to first use. Turn liner inside out and wash with warm water and detergent. Rinse off detergent. Next, allow liner to soak in hot tap water for 60 minutes followed by rinsing with distilled water and a final rinse with 70% isopropyl alcohol. Allow to dry completely. Store in a cool dark environment in an unsealed package for longest life of product. Light, heat and the inability to 'breathe' are detriments to natural latex.

ARTIFICIAL VAGINAS, COMPLETE - BOVINE/RUMINANT

The 'complete' artificial vagina kits include the rigid support tube with brass or stainless filling port, 12" heavyweight latex liner, lightweight latex end cone, two securing latex rubber bands, and a 15ml centrifuge tube.

The standard bovine A.V. has a 16.5" rigid rubber base tube. It is also available in a 14.5" version. A handy bulb-style squeeze pump with tube (*704455) is for adding/removing pressure.

- 615005 Artificial Vagina Shell, 5" Sheep (Molded tube) w/Flared Ends
- 615010 Artificial Vagina, 8" Sheep (w/Straight tube) - Complete
- 614705 Artificial Vagina Shell, 16.5" Bovine (Straight tube w/valve)
- 614706 Artificial Vagina Shell, 14.5" Bovine (Straight tube w/valve)
- 614707 Artificial Vagina Shell, Gray Tubing, 16.5" (Straight tube - NO valve)
- 614715 Artif. Vagina, 14" Bovine (Molded tube) - Complete (w/liner, cone, bands, cent. tube)
- 614717 Artif. Vagina, 16" Bovine (Molded tube) - Complete (w/liner, cone, bands, cent. tube)
- 11021/0033 Artificial Vagina Shell, 12" Bovine (Molded tube) w/Flared Ends
- 11021/0035 Artificial Vagina Shell, 14" Bovine (Molded tube) w/Flared Ends
- 11021/0041 Artificial Vagina Shell, 16" Bovine (Molded tube) w/Flared Ends
- 614681 Security Band for Bovine AV (set of 2)
- 704455 AV Air Filling Jug Pump (each)
- 11323/0003 Filling Valve Only (air & water)
- 614725 Glass Rod - AV Lubrication, 16mm (0.63") OD x 46cm (18") L, Rounded ends (each)

Additional lengths available

614725 



SPERM CONCENTRATION / IgG TESTING IN AN INEXPENSIVE AND EASY-TO-USE UNIT!

**Multiple functions
Portable • Accurate**



073510



071530



071517
For 1st Generation
DVM RapidTest™



072510

DVM RAPID TEST II™ ANALYZER/SUPPLIES

If you're looking for a reliable and fast way to get a sperm count, evaluate IgG in serum/plasma or colostrum, and do it all without breaking the bank, then we have an analyzer for you. The DVM Rapid Test II™ is a small portable photometer which has been calibrated to measure sperm concentration in raw [neat] semen and IgG levels in serum/plasma or colostrum of several species. A standard is included for the unit to 'self-zero'. An LED light source is used and the machine is powered by batteries. All tests may be performed in 10 minutes or less, and with direct reading of results, there's no need for charts. Testing is simple, and the mini pipettors and instructions are included with purchase of the unit. Extra testing kits come complete with all you need to continue (cuvettes, reagent, instructions). Sperm concentration validation for bovine, equine, canine, and swine. Give us a call for more information.

- 073509 DVM Rapid Test II™ (Unit, case, pipettors, instructions) - *Sperm Conc. Only, All Species*
- 073510 DVM Rapid Test II™ (Unit, case, pipettors, timer, instructions) - *Equine Sperm Conc. & IgG*
- 073517 DVM Rapid Test II™ Sperm Concentration Test Kit - Complete (25 tests/kit)
- 073545 DVM Rapid Test II™ Bovine IgG Test Kit - Serum/Plasma (12 tests/kit)
- 073552 DVM Rapid Test II™ Bovine IgG Test Kit - Colostrum (12 tests/kit)
- 073580 DVM Rapid Test II™ Camelid IgG Test Kit - Serum/Plasma (12 tests/kit)
- 073544 DVM Rapid Test II™ Equine IgG Test Kit - Serum/Plasma (12 tests/kit)
- 073554 DVM Rapid Test II™ Equine IgG Test Kit - Colostrum (12 tests/kit)
- 071530 DVM Rapid Test™ Cuvette Tubes Rack

We still carry sperm concentration & IgG kits for the original DVM RapidTest™ unit as well.

- 071517 DVM Rapid Test™ (Generation 1) Sperm Concentration Test Kit - Complete (25 tests/kit)
- 071519 DVM Rapid Test™ (Generation 1) Sperm Concentration Test Kit - Complete (125 tests/kit)
- 071570 DVM Rapid Test™ (Generation 1) Canine Sperm Conc. Test Kit - Complete (25 tests/kit)
- 071544 DVM Rapid Test™ (Generation 1) Equine IgG Serum/Plasma Kit - Complete (25 tests/kit)
- 071560 DVM Rapid Test™ Primary Turbidity Standards Kit
- 071525 DVM Rapid Test™ Tubes w/Caps Only [no reagent] (25/pk)

NUCLEOCOUNTER® SP-100 ANALYZER/SUPPLIES

The NucleoCounter® SP-100 is the 'gold standard' for measurement of sperm concentration in raw (neat) ejaculates or in extended semen. A fluorescent dye is used to automatically label the DNA of the sperm during cassette loading. The instrument identifies and counts the sperm by identifying the fluorescent DNA. Measurements are made in less than one minute. Accuracy and repeatability of measurements are similar to that of flow cytometers. Fast, simple analysis, and adaptable to any production situation. Replacement/renewable testing supplies, reagent, and dispensing units are also available.

- 072510 NucleoCounter® SP-100 Analyzer (unit, case, reagent base, instructions)
- 072530 NucleoCounter® SP-100 Reagent Dispenser System - 1-10ml
- 072535 SP-100 Testing Cassettes Kit (100 cassettes)
- 072540 SP-100 Reagent Solution - 5 liter
- 072541 SP-100 Reagent Solution - 1 liter
- 072552 SP-100 Sample Cups NO LIDS - 1.5oz (125/sleeve)
- 072553 SP-100 Sample Cup Lids (125/sleeve)

ALTERNATE DEVICE TESTING KITS/ACCESSORIES

- 12300/1111 Replacement Microcuvettes for Minitube™ SDM-1 (100/pk)
- 701356 Cuvettes, 4.5ml (100/tray)
- 701355 Cuvette Caps, Square (100/pk)



073517
For
DVM RapidTest™ II



072535



072541



072530



072540



701355



701356



074510

SQS[®] PRO THE FUTURE OF SEMEN EVALUATION

CONFIGURABLE PARAMETERS

- Dose Volume: Quantity in milliliters of the desired final dose
- Desired Sperm: Quantity and quality of spermatozoa per dose
- Analysis Dilution: Dilution ratio used to prepare the semen sample

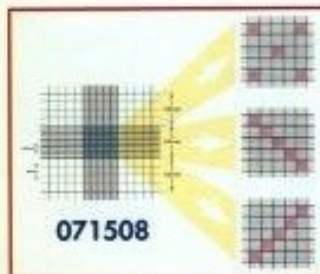
MEASURED PARAMETERS

- Total number of spermatozoa per ejaculate
- Concentration (millions per ml)
- Viability (%)
- Tail abnormalities and cytoplasmic droplets (%)
- Useful spermatozoa (millions per ml)
- Number of doses
- Extender volume necessary to prepare the doses

REPROPETTE™

When you purchase a ReproPette Counting System you also get instructions for proper counting methods using an improved Neubaur Hemocytometer.

701270



071508

SQS[®] PRO SPERM COUNTING AND ANALYSIS

The SQS[®] Pro sperm counting and analysis system by ZoiTech[®] Lab is the future of semen evaluation, delivering the best of both worlds as pertains to counting healthy sperm cells as well as offering the attributes of a CASA (Computer-Assisted Sperm Analysis) system. Testing is fast and effective (about 90 seconds), with the use of a high-resolution internal camera and a dual-staining application. With traditional CASA testing, the plasma membrane is not evaluated for integrity. The SQS[®] Pro system's staining protocol analyzes the plasma membrane. A sperm cell with a damaged membrane is incapable of successful fertilization of the ovum, but may still be motile. The interactive touchscreen on the SQS[®] Pro allows you to check to see which cells the unit identified as viable. The SQS[®] Pro also doesn't require the use of a separate computer system.

- | | |
|--------|-------------------------------------------------------------------------|
| 074510 | SQS [®] Pro Sperm Counting & Analysis System (SPECIES) |
| 704517 | SQS [®] Pro Sperm Testing Replacement Kit - SWINE (100 tests) |
| 704518 | SQS [®] Pro Sperm Testing Replacement Kit - EQUINE (100 tests) |
| 704519 | SQS [®] Pro Sperm Testing Replacement Kit - CANINE (100 tests) |

The squares tinted in red represent three of the popular counting methods when using a hemocytometer. By counting cells in one of these three patterns it offers the best chance at achieving an even balance of cells across the possible ranges of concentration within the volume controlled grid.

REPROPETTE COUNTING SYSTEMS / SODIUM CITRATE

The ReproPette™ dilution and counting system is a great product for preparing samples for counting cells on a hemocytometer. With the formerly popular Unopette™ systems no longer being manufactured, we've developed the ReproPette™ system to replace the former system. The kit includes premeasured reagent vials, the minipipettor and tips, lab wipes, and instructions for use (including proper hemocytometer counting techniques). Available in either 1:101 or 1:201 dilution ratios, depending on species/raw semen concentration. Improved Neubauer Hemocytometers are specialized microscope counting chambers with fixed-volume coverslips used for manually counting cells. *Hemocytometer and stain information also on page 33.*

- | | |
|--------|---------------------------------------------------------------------------|
| 701270 | ReproPette™ Sperm Counting Preparation Kit - 1:101 Dilution (48 tests) |
| 701275 | ReproPette™ Sperm Counting Preparation Kit - 1:201 Dilution (48 tests) |
| 703211 | Sodium Citrate - 28.5 gram package (each) |
| 071506 | Improved Neubauer Hemocytometer Coverslips (10/pk) |
| 071508 | Improved Neubauer Hemocytometer - Includes (1) 10/pk of Coverslips (each) |



701320



15405/0000



15405/0026

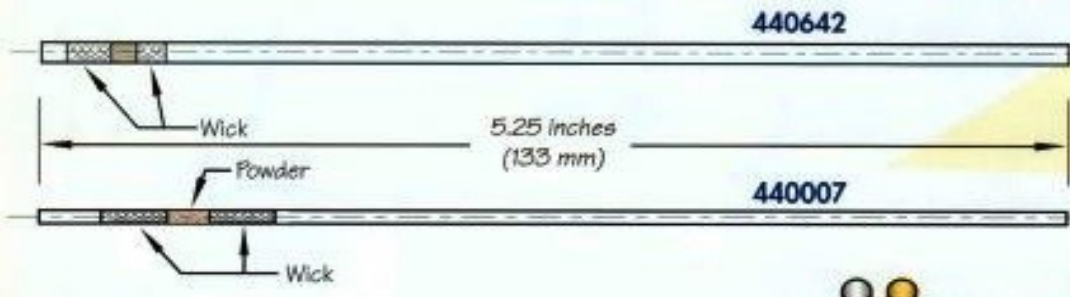
SPERM STAINS

Sperm staining solutions are used for counting and morphology analysis of sperm cells. Live/Dead Stain is used to identify dead cells. The biological stain doesn't penetrate the membranes of viable cells, resulting in dim staining. In dead cells, the dye permeates the membrane, causing a darker stain. Spermac™ Stain is for a more diagnostic approach in determining morphology of cells. This 4-step staining process is used to clearly visualize detailed spermatozoa morphology, including the head, acrosome, equatorial segment and tail components. Farelly™ Stain is a kit that stains the sperm cells in a blue and violet color contrast to identify spermatozoa abnormalities.

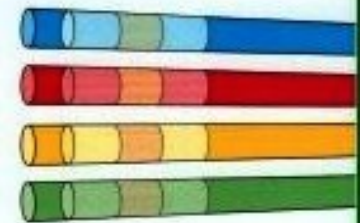
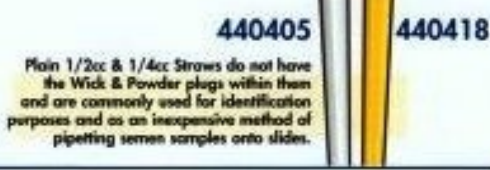
- | | |
|------------|------------------------------------------|
| 701320 | Live/Dead Stain - Purple - 20 ml (each) |
| 15405/0000 | Spermac™ Stain, 4-part (50ml each part) |
| 15405/0026 | Farelly™ Stain, 3-part (250ml each part) |

Basic Semen/Embryo Straw Design

The straws are 5.25 inches in length with a 'wick & powder' plug within the barrel near one end. This fluid barrier prevents leakage but is also designed to act as a plunger, forcing the contents out in front of it when used with an A.I. or E.T. gun. Common straws have volumes of either 1/2cc or 1/4cc.



Some of our colored straw options use opaque coloring. This may reduce visibility of internal contents when filling or examining straws. Inquire further for which colors offer greater transparency.



SEMEN & EMBRYO STRAWS

1/2cc STRAWS WITH WICK & POWDER PLUG - BULK, NON-STERILE

These 1/2cc straws are commonly used for holding semen or embryos for artificial insemination or embryo transfer. Ideal for cryopreservation. Manufactured of PVC plastic, they are 5.25" long (13.33cm) and have a wick and powder plug at one end. Designed to fit 1/2cc or dual-purpose A.I. or E.T. guns. Packaged 100/pk or in bulk packs of 2,500 straws, non-sterile. Available in a variety of colors. The clear version is also available in a 1cc double-length version (10.5"), packaged 10/pk. Sterilized versions of the clear 1/2cc straw are also available, as are options without the wick and powder plug (see below).

440001	Straw, 1cc w/Wick & Powder - Clear (10/pk)	
440642	Straw, 1/2cc w/Wick & Powder - Clear (100/pk)	
440644	Straw, 1/2cc w/Wick & Powder - Blue (100/pk)	
440646	Straw, 1/2cc w/Wick & Powder - Gray (100/pk)	
440648	Straw, 1/2cc w/Wick & Powder - Green (100/pk)	
440664	Straw, 1/2cc w/Wick & Powder - Red (100/pk)	
440676	Straw, 1/2cc w/Wick & Powder - Yellow (100/pk)	

The bulk packaging (2,500/pk) product numbers for these same 1/2cc straws are as follows:

13408/0010	Clear (2,500/pk)		13408/0054	Green (2,500/pk)	
13408/0064	Blue (2,500/pk)		13408/0044	Red (2,500/pk)	
13408/0074	Gray (2,500/pk)		13408/0094	Yellow (2,500/pk)	

1/2cc & 1/4cc STRAWS WITHOUT PLUG - BULK, NON-STERILE

These straws are used as labeling straws, often combined with a 1/4cc-to-1/2cc connecting straw adapter. Another popular use of these straws is as a 5" syringe extension when used with a syringe-to-straw adapter (#440355) for drawing up fluids from bottles or collection vessels, or even 'as-is' to pipette small samples to slides. Manufactured of PVC plastic, they are 5.25" long (13.33cm) but do not have a wick and powder plug at one end. Packaged 100/pk or in bulk packs of 2,500 straws, non-sterile. Available in clear or yellow.

440405	Straw, 1/2cc Plain (no plug) - Clear (100/pk)
440418	Straw, 1/2cc Plain (no plug) - Yellow (100/pk)
13409/0010	Straw, 1/2cc Plain (no plug) Bulk - Clear (2,500/pk)
13409/0020	Straw, 1/2cc Plain (no plug) Bulk - Yellow (2,500/pk)
15404/1000	Straw, 1/4cc Plain (no plug) - Clear (1,000/pk)
15404/1100	Straw, 1/4cc Plain (no plug) - Yellow (1,000/pk)

1/4cc STRAWS WITH WICK & POWDER PLUG - BULK, NON-STERILE

Bulk-packed 1/4cc straws. Manufactured of PVC plastic, they are 5.25" long (13.33cm). Available in several colors, with a wick and powder plug at one end. The clear straws are packaged in options of either 100/pk or in bulk packs of 2,000/pk, non-sterile. The various additional colors are packaged in bulk packs of 2,000/pk.

440015	Straw, 1/4cc w/Wick & Powder - Clear (100/pk)	
13407/0010	Straw, 1/4cc w/Wick & Powder - Clear (2,000/pk)	
13407/0064	Straw, 1/4cc w/Wick & Powder - Blue (2,000/pk)	
13407/0074	Straw, 1/4cc w/Wick & Powder - Gray (2,000/pk)	
13407/0054	Straw, 1/4cc w/Wick & Powder - Green (2,000/pk)	
13407/0144	Straw, 1/4cc w/Wick & Powder - Orange (2,000/pk)	
13407/0204	Straw, 1/4cc w/Wick & Powder - Pistachio (2,000/pk)	
13407/0044	Straw, 1/4cc w/Wick & Powder - Red (2,000/pk)	
13407/0094	Straw, 1/4cc w/Wick & Powder - Yellow (2,000/pk)	

ONCE YOU HAVE YOUR STRAWS, HOW DO YOU FILL THEM?

A small syringe with a reusable syringe-to-straw adapter. (pg 17)



Micro CL Pipette Controller (pg 27)



Bubbler Comb & Basket Kit (pg 36)

MAKE SURE WHEN FILLING YOUR STRAWS TO DRAW THE FLUID COMPLETELY THROUGH THE FIRST WICK SECTION AND FULLY INTO THE SECOND WICK SECTION TO ENSURE A PROPER SEAL.



Bubbler Comb and Basket Kits



821000



821010



981010

981012

981013

Additional straw filling and freezing supplies can be found in the CANINE section of this catalog, pages 36-39.

FOR LABELING STRAWS

- Brady® Label Printers
- Cryo-Pens (handwritten)
- Preprinted Straw Service

Call or email for details!

Gamma irradiation may result in minor discoloration of the straw.

Sterilized straws are packed in small quantities (packs of 5 or 10 pcs).



440013

1/4cc & 1/2cc STERILIZED STRAWS

These are the same style straws as the standard wick-and-powder plug straws, but packaged in a commonly usable size and gamma irradiated. Available in many styles, depending on the application (1/2cc standard, Direct Transfer, Vitrification, Colored plug, Clear 1/4cc, etc.).

- 440011 Straw, 1/4cc with Colored Wick & Powder plug - Clear (5/pk)
- 440013 Straw, 1/4cc Vitrification Straw with Wick & Powder plug - Pastel Blue (5/pk)
- 440075 Straw, 1/4cc with Wick & Powder plug - Clear (5/pk)
- 440076 Straw, 1/4cc with Wick & Powder plug - Clear (10/pk)
- 440077 Straw, 1/4cc with Wick & Powder plug - Clear [ETO STERILIZED] (5/pk)
- 440035 Straw, 1/4cc Direct Transfer (DT printed) with Wick & Powder plug - Yellow (5/pk)
- 440038 Straw, 1/4cc Direct Transfer (DT printed) with Wick & Powder plug - Yellow (100/pk)*
- 440030 Straw, 1/4cc Direct Transfer (DT printed) with Wick & Powder plug - Yellow (2,000/pk)*
- 441300 Straw, 1/2cc with Wick & Powder plug - Clear (5/pk)
- 441275 Straw, 1/2cc with Wick & Powder plug - Clear (10/pk)

*DT straws packed in 100 & 2,000 packs are not sterilized

PRE-PRINTED STRAWS

There are options for the direct printing of straws as well. Want to avoid the tedium of hand printing a large batch of straws with the same information over and over again? Are you 'penmanship challenged' when trying to write tiny names and numbers? We have the capability to custom preprint straws in any quantity you desire and on any of our 1/2cc or 1/4cc straw stocks. Simply send us the information you'd like to have printed on the straw, the straw volume and color and leave the rest to us. One day turnaround for standard straws. We can print up to 75 characters per line and up to three lines on 1/2cc straws (or 1 line on 1/4cc straws). Your time - or your tech's time - is worth money. An affordable, efficient method for identifying straws.

- 442642 Custom Printed Straws, 1/2cc - Your information [minimum quantity: 50] (each)
- 442645 Custom Printed Straws, 1/4cc - Your information [minimum quantity: 50] (each)



CRYO-PENS

Still prefer to write up your own straw identification information? Cryo-Pens are the answer. These specialty ultra-fine-tip ink pens stand up clearly in cryologic temperatures.

- 981010 Cryo-Pen, Black (each)
- 981012 Cryo-Pen, Green (each)
- 981013 Cryo-Pen, Red (each)

BUBBLER COMBS & BASKETS

Bubbler Combs & Baskets are handy disposable units for assisting in semen straw filling. The 'comb' unit holds the filled straws, with the tines creating both a consistent fill and a tiny air space to prep for sealing. The 'basket' catches the residual runoff from the straws, so none is wasted. We also have the optional Bubbler Support Unit, which is a stainless steel base unit holder for the whole assembly. For filling straws, the 20-straw filling manifold (for 1/4cc straws) or the 15-straw filling manifold (for 1/2cc straws) makes the whole job more efficient - allowing consistent, fast filling. Additional Straw filling and freezing rack products can be found in the canine section of this catalog.

- 821000 Bubbler Combs & Baskets - 1/2cc straws (25/pk)
- 821001 Bubbler Combs & Baskets - 1/4cc straws (25/pk)
- 821010 Bubbler Support Unit, Stainless Steel (each)

440075

440076



440035

440038





LABEL PRINTERS & ACCESSORIES

The Brady® label printing systems are portable devices that are both simple to use and which produce clear, consistent labels. The patented cryo-safe, self-laminating labels wrap around straws easily, and the repeatability function allows printing an entire series in seconds. These hand-held printers are also PC compatible, so cataloging files can also be achieved. Ideal for straw label printing, but also handy for alternate applications where small adhesive labels are needed. Bar-coding capable, too. Cryo-labels available in white or yellow. The Brady® TLS-2200 printer isn't being manufactured any longer, but the accessories for this familiar unit are still available. The newer units – the Brady® BMP-51 and BMP-61 units come complete with instructions, case, battery pack, A/C battery charger, and cleaning card. These newer units can print larger-format labels for things such as small goblets and vials as well. Improvements include a standard-layout keyboard, larger LCD screen and the label and ink cartridge are together as one unit, so keeping track of consumable stock is easy.

- 447501 Brady® 2200 Printer Replacement Battery Pack
- 447505 Brady® 2200 Printer Labels (cryo-safe) - White (250/roll)
- 447506 Brady® 2200 Printer Labels (cryo-safe) - Yellow (250/roll)
- 447507 Brady® 2200 Printer Replacement Ink Cartridge (each)
- 447509 Brady® 2200 Printer Cleaning Card Kit (5/pk)
- 447600 Brady® BMP-51 Straw/Label Printing System
- 447700 Brady® BMP-61 Straw/Label Printing System
- 447601 Brady® ID Expert/Lab Expert Label Cartridge w/Ribbon - 1" x 1.75" (175/roll)
- 447602 Brady® ID Expert Label Cartridge w/Ribbon - 1" x 0.5" (350/roll)
- 447603 Brady® BMP-51 Label Cartridge w/Ribbon - 1" x 1.75" (180/roll)
- 447504 Brady® BMP-61 Label Cartridge w/Ribbon - 1" x 3.375" (100/roll)

*Contact Reproduction Resources for labels and component accessories for the Brady printers.

STRAW SEALING POWDER & PUTTY

These are the accessories commonly used with straws for sealing and identification purposes. We carry PVA straw sealing powder in 1.65 lb (750 gram) and 0.77 lb (350 gram) bottles. White is still the most popular, but for identification purposes, we also offer a wide color assortment as seen in the below product number listing. Instructions for use of the sealing powder are available.

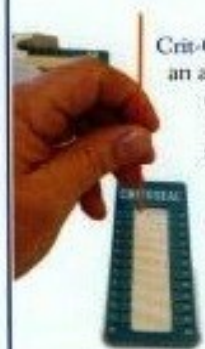
- | | | |
|-------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|
| 440200 Sealing Powder, White - 1.65 lb (750 gm) |  | 440230 White 0.77 lb (350 gm) |
| 440201 Sealing Powder, Yellow - 1.65 lb (750 gm) |  | 440231 Yellow - 0.77 lb (350 gm) |
| 440202 Sealing Powder, Red - 1.65 lb (750 gm) |  | 440232 Red - 0.77 lb (350 gm) |
| 440203 Sealing Powder, Green - 1.65 lb (750 gm) |  | 440233 Green - 0.77 lb (350 gm) |
| 440204 Sealing Powder, Blue - 1.65 lb (750 gm) |  | 440234 Blue - 0.77 lb (350 gm) |
| 440205 Sealing Powder, Orange - 1.65 lb (750 gm) |  | |
| 440207 Sealing Powder, Purple - 1.65 lb (750 gm) |  | |
| 440208 Sealing Powder, Brown - 1.65 lb (750 gm) |  | |
| 440209 Sealing Powder, Black - 1.65 lb (750 gm) |  | |
| 440206 Crit-O-Seal™ Straw Sealing Putty - 6 trays/box | | |

Straw sealing plugs, adapters, balls, and impulse sealers can be found on the following page.



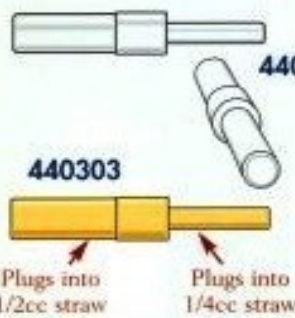
PVA Straw Sealing Powder

Dispense a small amount into a dish or flat surface and gently compact until at a uniform depth. Push the open end of a properly filled straw (with an air gap at the sealing powder end) into the powder, filling the end of the straw with powder while maintaining an air gap. Carefully immerse the straw(s) horizontally in water – at the same temperature as the liquid within the straw – for 5-10 minutes. Remove the straw(s) and dry gently with a Kim Wipe or tissue before freezing. Any remaining moistened sealing powder must be discarded.



Crit-O-Seal™ putty is an alternate method of sealing straws. Simply press the straw tip into the putty and you have an instant seal. One box is enough to seal several hundred straws with a consistent thickness – and no mess.

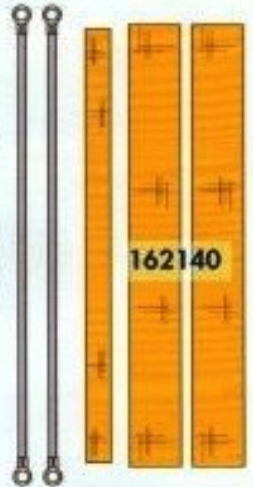
440206



13135/0120



162141



162140

The impulse and ultrasonic sealers (for sealing straws, poly bags or sterilization tubing) can also be found on page 24 in the catalog.



440403 440400

1/2cc straws with attached 1/4cc adapter plugs are a pre-assembled option in convenient usable-size quantities.

STRAW ADAPTERS & ACCESSORIES

The 1/4cc to 1/2cc plastic straw adapters are an original Reproduction Resources design. The adapters allow both the plugging of a 1/4cc straw along with the option of adding a 1/2cc straw to the upper end for identification purposes. By using the adapter system you can pull frozen straws partly out of a liquid nitrogen tank for identification, rather than exposing them to room temperature air. Common identification methods are by placing a labeled 1/4cc straw within the 1/2cc upper straw or by labeling the 1/2cc straw directly. The adapters are offered in white and yellow. To save preparation time, we also package the adapters complete with a 1/2cc straw attached.

- 440301 Straw Adapters, 1/4cc to 1/2cc - White (100/pk)
- 440303 Straw Adapters, 1/4cc to 1/2cc - Yellow (100/pk)
- 440305 Straw Adapters, 1/4cc to 1/2cc, Machined - White (each)
- 440400 Straw Adapters with 1/2cc Straw affixed - Clear (10/pk)
- 440401 Straw Adapters with 1/2cc Straw affixed - Clear (5/pk)
- 440403 Straw Adapters with 1/2cc Straw affixed - Yellow (10/pk)

STRAW I.D. PLUGS

Straw I.D. Plugs are designed to fit standard 1/4cc straws. Available in 4 colors, packaged 100 per pack, they extend 1-5/8" (41mm) beyond the end of the straw. Convenient for attaching an ID label to them for identification.

- 19046/0020 Straw I.D. Plugs, 1/4cc - Yellow (100/pk)
- 19046/0035 Straw I.D. Plugs, 1/4cc - Pink (100/pk)
- 19046/0025 Straw I.D. Plugs, 1/4cc - Blue (100/pk)
- 19046/0010 Straw I.D. Plugs, 1/4cc - White (100/pk)
- 19046/0030 Straw I.D. Plugs, 1/4cc - Red (100/pk)

IMPULSE HEAT SEALER/SUPPLIES

An 8-inch element length impulse sealer. Perfect for individually wrapping supplies or packaging disposables. The 2 mm width flat element seal works very effectively on the sterilization tubing listed above. Adjustable settings for different thicknesses of plastics. Teflon strips covering the element prevent sticking. Simply press the lever bar down and the sealer activates. Plugs into any standard A/C 110V wall outlet. The Sealer Service Kit includes (2) replacement flat elements, (2) replacement teflon cover strips, and (1) replacement teflon for under the element.

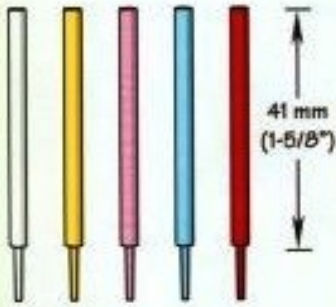
The UltraSeal 21™ seals the tips of 1/4cc or 1/2cc straws by ultrasonic vibration, with virtually no heat transfer to the liquid contents of the straw.

- 162141 Impulse Heat Sealer w/Flat element - 8" (each)
- 162140 Impulse Heat Sealer 8" Service Kit (each)
- 13135/0120 UltraSeal 21™ Straw Sealer

STRAW SEALING BALLS

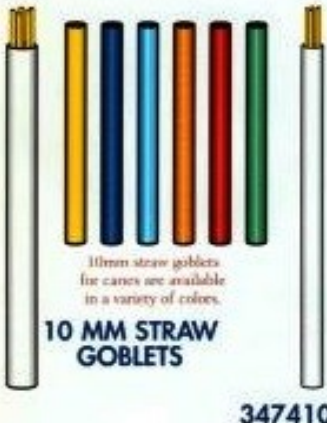
Another option for sealing straws is via use of a straw sealing ball. These are small steel or glass balls slightly larger than the inner diameter of the semen or embryo straws. They are pushed into the end of the straw to form a uniform, tight seal.

- 13400/9900 Metal Sealing Ball for 1/2cc Straw (1,000/pk)
- 13400/9970 Metal Sealing Ball for 1/4cc Straw (1,000/pk)
- 13400/0400 Glass Sealing Ball for 1/2cc Straw - Light Blue (1,000/pk)
- 13400/0500 Glass Sealing Ball for 1/2cc Straw - Light Green (1,000/pk)
- 13400/0600 Glass Sealing Ball for 1/2cc Straw - Light Red (1,000/pk)



STRAW I.D. PLUGS

FREEZE CONTROLLERS, EMBRYO FREEZERS & POWERED BIOLOGICAL SPECIMEN SHIPPERS CAN BE FOUND IN THE LIQUID NITROGEN TANKS AND FREEZEING SECTION OF THIS CATALOG (GREEN-BORDERED PAGES, 46-49)

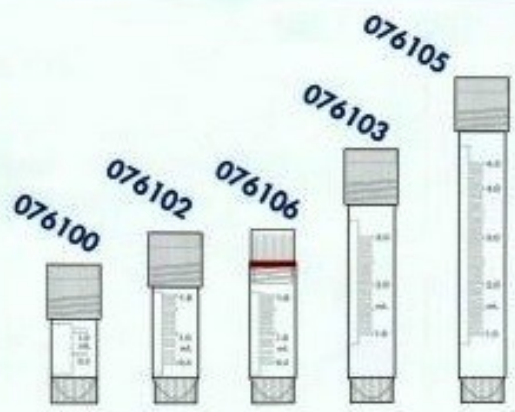


10mm straw goblets for canes are available in a variety of colors.
10 MM STRAW GOBLETs

347410



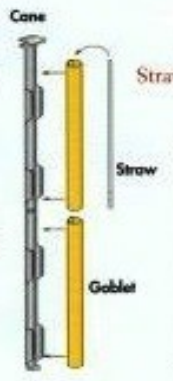
13 MM STRAW GOBLETs



GOBLETs - STRAW STORAGE

Plastic goblets have been a long-standing method of storing and transporting straws within liquid nitrogen tanks. Coupled with aluminum canes, the goblets are a plastic open-ended tube that hold either 1/2cc or 1/4cc straws. The 10mm goblets hold approximately (5) 1/2cc straws or (10) 1/4cc straws.* The 13mm goblets hold approximately (11) 1/2cc straws or (22) 1/4cc straws.* The goblets allow two levels of storage when snapped into common eleven-inch aluminum canes. The goblets are offered most commonly in 10mm and 13mm diameters to coincide with the appropriate cane. Both diameters of the cane-fitted goblets are 119 mm (4.69") in height. These are available in a variety of colors to help in the identification process. We also have larger-size goblets (available individually) which are most commonly used for 1-level bulk canister storage in LN2 tanks. Also available is the 7.1mm goblet used most commonly with 1/4cc straws (in 7mm canes). See the list below for all options and colors.

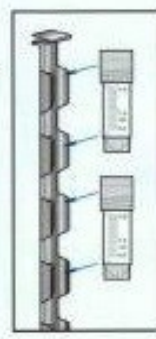
- 347410 Goblets, 7.1mm - Clear
- 347430 Goblets, 10mm - Clear (100/pk)
- 347432 Goblets, 10mm - Blue (100/pk)
- 347434 Goblets, 10mm - Orange (100/pk)
- 347437 Goblets, 10mm - Red (100/pk)
- 347438 Goblets, 10mm - Green (100/pk)
- 347439 Goblets, 10mm - Yellow (100/pk)
- 347440 Goblets, 13mm - Clear (100/pk)
- 347442 Goblets, 13mm - Blue (100/pk)
- 347444 Goblets, 13mm - Orange (100/pk)
- 347449 Goblets, 13mm - Yellow (100/pk)
- 16935/0135 Goblets, 35mm - Clear (each)
- 347457 Goblets, 42mm - Clear (each)
- 347459 Goblets, 53mm - Clear (each)
- 16965/0133 Goblets, 65mm - Clear (each)
- 347495 Goblets, 95mm - Clear (each)



Typical Straw/Goblet/Cane setup.

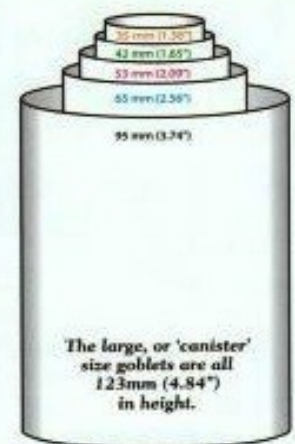
	10mm	13mm
1/2cc Straws	5	11
1/4cc Straws	10	22

*The straw capacities of these goblets will be reduced by approximately 20% if the straws have adhesive labels affixed to them.



When using cryovials in canes, make sure to choose the 13mm 6-tab canes. The extra tabs will hold the cryovials more securely than standard 4-tab canes normally used for goblet storage. (the longer 5ml cryovials store well in either 4-tab or 6-tab canes)

When liquid nitrogen tank specifications list straw capacities as 'One Level Bulk' they are referring to storing straws in canister-sized goblets like these shown below as opposed to storage in smaller goblets within canes. Benefits: High storage capacity. Negatives: Reduced ID options



X-LARGE GOBLETs

The large, or 'canister' size goblets are all 123mm (4.84") in height.

CRYOGENIC STORAGE VIALs

Cryovials are used for storing several different types of samples (semen, blood, embryos, etc.) in liquid nitrogen tanks. All styles and volumes we carry are designed to snap into the 13mm aluminum canes shown above (more commonly, the 6-tab canes #347556). When ordering, the important details to consider are vial volume, base design, and cap style. The most common styles are listed here, but if you have a specific type you're seeking and it isn't shown here - give us a call. We can special order just about any version available. Listed here in individual units (each), but most are commonly sold in packs of 50 or 100 vials.

- 076100 Cryo-Vial - 1.2ml, Self-standing, external threads w/lip seal design (each)
- 076102 Cryo-Vial - 2ml, Self-standing, external threads w/lip seal design (each)
- 076103 Cryo-Vial - 3ml, Self-standing, external threads w/lip seal design (each)
- 076105 Cryo-Vial - 5ml, Self-standing, external threads w/lip seal design (each)
- 076106 Cryo-Vial - 2ml, Self-standing, internal threads w/O-ring seal design [inline cap] (each)

STRAW FREEZING RACKs

Straw freezing racks are used to lay out a parallel array of either 1/2cc or 1/4cc straws for freezing. The wire or machined straw rack is placed into an open-topped polystyrene (or similar) box with a shallow volume of liquid nitrogen poured into the bottom. The rack holds the straws in the vapor above the liquid nitrogen to freeze them for cryopreservation. Available in multiple straw capacities.

- 15040/0050 Straw Freezing Rack, Stainless, holds (50) 1/2cc or 1/4cc straws
- 15040/1755 Straw Freezing Rack, Stainless, holds (175) 1/4cc straws
- 15041/0050 Straw Freezing Distribution Block, Machined Aluminum, holds (50) 1/2cc or 1/4cc straws



Length: 282mm
Width: 146mm
Height: 46mm (to straw tray)



Length: 330mm
Width: 90mm
Height: 56mm



The Bovine-EXT™ Two Part Extenders can also be purchased as separate components. Inquire about options to meet your needs!

107400



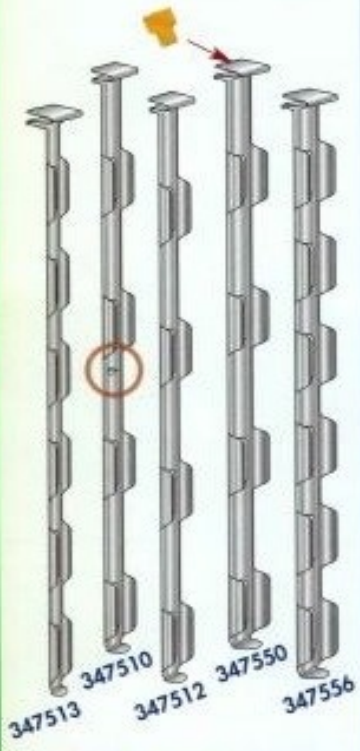
106010

13500/1200

13500/0004, 0006 & 0005

Note: Equine extenders can be found in the EQUINE section of this catalog. Canine extenders can be found in the CANINE section of this catalog.

Cane Tabs, used for identification of cane contents, affix easily onto the tops of all of our cane products. Available in 8 colors



The 13mm 6-tab canes are an ideal platform for the carriage of cryovials of many sizes.

ALUMINUM CANES FOR GOBLET & CRYOVIAL STORAGE

Aluminum canes for securing goblets for frozen semen/embryo storage and shipping. These 11.25" long (285mm) canes are offered in 7.1mm 10mm and 13mm diameters. All are designed to hold either (2) straw goblets or varying numbers of cryovials, depending on cryovial volumes. The 10mm canes are available either with or without the shelf tab. The tab is useful for holding the upper goblet in place (as a base stop). It is not absolutely necessary. The 13mm canes are available in the common 4-tab configuration for holding goblets or the 6-tab configuration if using cryovials. All are offered 100 per pack.

- 347513 Canes, 7.1mm Diameter for Goblets - No Shelf (100/pk)
- 347510 Canes, 10mm Diameter for Goblets - With Shelf [most common] (100/pk)
- 347512 Canes, 10mm Diameter for Goblets/Vials - No Shelf (100/pk)
- 347550 Canes, 13mm Diameter for Goblets (100/pk)
- 347556 Canes, 13mm Diameter for Cryovials, 6-tab (100/pk)
- 347554 Canes, 13mm Diameter for Cryovials, 6-tab [wider tab diam.] (100/pk)

CANE TABS FOR CANE & STRAW IDENTIFICATION

The tops of the canes are designed to accommodate colored cane tabs for identification, if desired. The cane tabs are a small, colored aluminum fitting that snaps onto the top of the cane that can be used as is or with additional labeling for further identification. Cane tabs are available in eight colors (see list below) and packaged 100 per pack.

- 347515 Cane Tabs - Blue (100/pk)
- 347516 Cane Tabs - Green (100/pk)
- 347517 Cane Tabs - Pink (100/pk)
- 347518 Cane Tabs - Red (100/pk)
- 347519 Cane Tabs - White (100/pk)
- 347520 Cane Tabs - Orange (100/pk)
- 347521 Cane Tabs - Yellow (100/pk)
- 347522 Cane Tabs - Purple (100/pk)

SEMEN EXTENDERS & ANTIBIOTICS – BOVINE & SMALL RUMINANTS

One- and two-part concentrated semen extenders have long been used as a basic extender with applications for bovine and caprine semen. Available with antibiotics already added (EC requirements) or with antibiotics on the side (CSS requirements). Bovine-EXT® is a concentrated medium for frozen or liquid bovine semen. It is available as a one-step complete extender or as a two-step extender with separate fractions (fraction 1 without glycerol, fraction 2 with glycerol) to meet CSS requirements. All contents combined produce 1 liter of extender. Triladyl® (*13500/1200) is a one-step ruminant freezing extender which has been popular worldwide for decades as formula for processing semen at room-temperature. Consistent results even with highly-diluted ejaculates. Biladyl® (*13500/0004, 0005, 0006) is a two-step ruminant extender based on the proven Triladyl formula, consisting of fractions A, B and cocktail AB for extending according to CSS requirements. Fraction B contains the glycerol (fractions available separately). We also offer antibiotic supplements for the one-step extenders.

- 107400 Bovine-EXT™ One Part Extender Concentrate (makes 1 liter)
- 107450 Bovine-EXT™ Two Part Extender Concentrate, w/out antibiotic (makes 500ml each part)
- 107454 Bovine-EXT™ Two Part Extender Concentrate, w/out antibiotic (makes 2 liters each part)
- 107505 Antibiotic for Bovine-EXT™ (One Part or Two Part)
- 13500/1200 Triladyl® CSS Semen Extender [Minitube] – One-Step (makes 1 L)
- 13500/0250 Triladyl® Semen Extender [Minitube] – One-Step with Antibiotics (makes 1 L)
- 13500/0004 Biladyl® Semen Extender [Minitube] – Two-Step Fraction A (makes 500ml)
- 13500/0006 Biladyl® Semen Extender [Minitube] – Two-Step Fraction B (makes 500ml)
- 13500/0005 Antibiotic Supplement for One-Part and Two-Part Extender (CSS)
- 106010 Glycerol – 13ml Bottle (each)



CANE TABS



STAINLESS STEEL A.I. GUNS - FOR SLIT OR UNSLIT A.I. SHEATHS

The basic gun design consists of a stainless steel barrel with flange at the top for the plunger finger-grip plus a stainless steel inner rod, or plunger. When choosing an insemination gun, it is important to select a gun that works with the style of A.I. sheath that will be used - either with a slit or unslit top end. Not all guns work with all styles of sheath. With the O-ring style gun, the extreme top outer section of the barrel flares out. A slit sheath is used with this gun. The slit allows the sheath to extend over this flared area and a plastic O-ring is then wedged up against the flared area holding the sheath in place. The 'Push-On' style gun (POGO™ as in 'Push On & Go') has a raised rib around the circumference of the barrel at the top outer section. An unslit sheath is used with this gun. The sheath is pushed up over this rib, holding it in place. Most of our styles of A.I. guns are engineered to work with both 1/2cc OR 1/4cc straws. The guns must be used with an insert-style sheath (blue = unslit, green = slit) for proper seating of the straw. The standard stainless A.I. gun is 18" - the common length for performing cattle insemination. These are sometimes referred to as "French-style" guns. A longer 21" Dual-Mate™ gun is also available for larger animals and can be used for embryo transfer work for cattle as well, with the proper sheath. See the 'Sheath' section on the following page as a reference.

- 363218 Dual-Mate™ Straw Gun - O-ring Style, 18" standard (each)
- 363221 Dual-Mate™ Straw Gun - O-ring Style, 21" (each)
- 363275 Extra O-rings for Guns (10/pk) - please specify color
- 363325 Dual-Mate™ Straw Gun - POGO™, 18" standard - Blue top (each)
- 363327 Dual-Mate™ Straw Gun - POGO™, 18" standard - Red top (each)
- 363329 Dual-Mate™ Straw Gun - POGO™, 18" standard - Yellow top (each)
- 363285 Straw Gun - O-ring Style, 18" - 1/2cc straws only (each)
- 363286 Straw Gun - O-ring Style, 18" - 1/4cc straws only (each)

STAINLESS STEEL A.I. GUNS - QUICKLOCK UNIVERSAL STYLES (Minitube®)

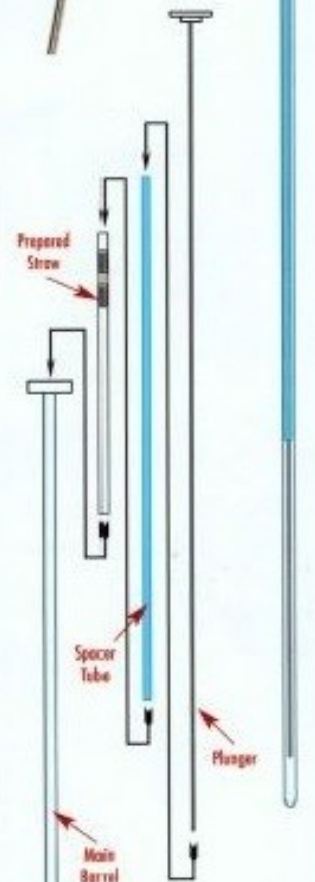
The QuickLock Classic and QuickLock 2000 styles of A.I. guns have a simple internal locking mechanism that holds the sheaths to the guns. These guns function with either slit OR unslit bovine sheaths equally well. They also accommodate both 1/2cc and 1/4cc straws. The unique locking design ensures that the sheaths push on tightly to the end every time, eliminating the potential for 'bend-overs' at the tip from a poor fit. The plunger is also secured within the gun, so it can slide, but never slide all the way out. This allows inverting the gun and loading the straws while the gun is upside down without losing the plunger. All parts of manufactured of sterilizable plastic or steel (autoclavable up to 120°C).

- 17025/0000 QuickLock™ Classic Universal Straw Gun - 18" (each)
- 17026/0000 QuickLock™ 2000 Universal Straw Gun - 18" (each)

DISPOSABLE A.I. / E.T. GUNS

Disposable artificial insemination or embryo transfer guns can be a handy option under many circumstances. Disposable guns work with standard straws (either 1/2cc or 1/4cc - see the list below for the correct item number). There is no need for an associated sheath with these guns, as would be needed with stainless steel A.I. or E.T. guns - this is an all-in-one unit, making the guns cost effective. Simply pull the steel stylet and insert out, drop your straw into the barrel, then slide the insert back into the barrel, which seats the straw within the gun's tip. Use the stylet to plunge the semen (or embryo) out. Simple and sanitary (each gun is individually wrapped and sterilized). Popular for low volumes or while traveling. They're also popular for embryo transfers with larger embryos requiring 1/2cc straws.

- 363625 Disposable A.I. / E.T. Gun, 21" - for 1/4cc straws (each)
- 363650 Disposable A.I. / E.T. Gun, 21" - for 1/2cc straws (each)
- 363750 Disposable A.I. / E.T. Gun, 25" - for 1/2cc straws (each)

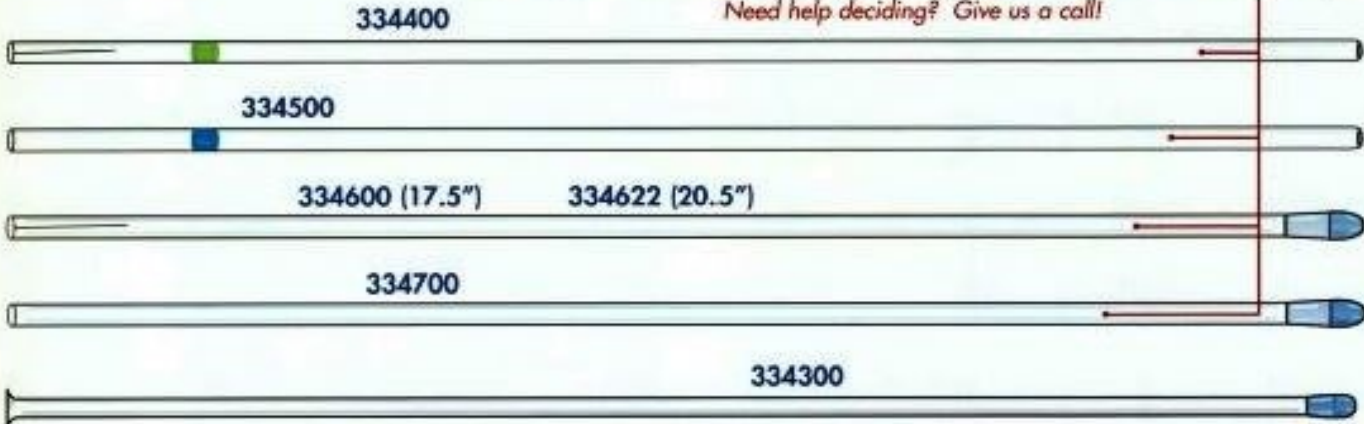


LOADING A STRAW INTO A DISPOSABLE A.I./E.T. GUN

1. Open the package and disassemble the components.
2. Drop the straw down into the main barrel (open end down, wick on top as a normal gun).
3. Slide the colored spacer tube down into the main barrel completely to seat the straw into the tip of the gun.
4. Insert the plunger into the gun as far as the wick plug of the straw.
5. Operate/plunge using proper technique.

18" and 21" sheaths are available in multiple styles, packed bulk or individually wrapped.

Need help deciding? Give us a call!



325110



325115



325112



325116

A.I. SHEATHS

Disposable sheaths are thin plastic tubes that slide over the barrels of artificial insemination guns, serving the purpose of seating the semen straw and holding it in place during the A.I. procedure. The sheath also helps keep the A.I. gun clean. Seating, or centering and holding of the straw, is accomplished by two basic methods (depending on the sheath style) – either with a fitting within the inner tip of the sheath or by use of a sliding insert within the barrel of the sheath. Both methods are designed to keep the straw affixed at the tip of the sheath so that ejection of the semen occurs properly. Since there are two basic styles of A.I. guns regularly used – push-on and O-ring (see descriptions on the previous page), the sheaths designed for use in conjunction with these are either slit or unslit at the end to accommodate. Slit sheaths are designed to be used with O-ring style guns (so that they may expand as they slide up over the flared hilt). Unslit sheaths are designed to be used with push-on style guns (so that they may twist snugly over the threads at the hilt). Either style will work with the QuickLock™ insemination guns. The green insert indicates a slit-style sheath, the blue insert indicates an unslit sheath. These insert sheaths are designed for use with all of our current lineup of A.I. guns. Stip-Tip™ sheaths are a unique 'bullet-tip' design for ease of passage. The interior design of the sheath tip has a taper to allow seating of both 1/2cc and 1/4cc straws (instead of the colored sliding insert).

Stip-Tip™ sheaths are available either slit for O-ring style guns (*334600) or unslit for push-on style guns (*334700). The 20.5" Stip-Tip™ sheath is designed for use with the 21" Dual-Mate™ A.I. gun. The QuarterMate sheath (*334300) is designed for 1/4cc straws only, but requires only a plunger, rather than an entire A.I. gun. The straw simply slides down into the sheath and the plunger from any 1/4cc gun plunges the straw – an easy, fast and clean insemination solution. This sheath also utilizes the stip-tip design. Most sheaths are also available in an individually wrapped version, which both maintains cleanliness and can be used as a disposable sheath protector. For more information on sheaths and usage, please do not hesitate to contact our offices!

- 334300 Sheath, QuarterMate - 1/4cc, 17.5" (50/pk)
- 334400 Sheath, 1/2cc & 1/4cc Slit with Green Insert, 17.5" (50/pk)
- 334401 Sheath, 1/2cc & 1/4cc Slit with Green Insert (individually wrapped), 17.5" (25/pk)
- 334500 Sheath, 1/2cc & 1/4cc Unslit with Blue Insert, 17.5" (50/pk)
- 334501 Sheath, 1/2cc & 1/4cc Unslit with Blue Insert (individually wrapped), 17.5" (25/pk)
- 334600 Sheath, Stip-Tip™ - 1/2cc & 1/4cc Slit with Rounded-tip, 17.5" (25/pk)
- 334624 Sheath, Stip-Tip™ - 1/2cc & 1/4cc Slit with Rounded-tip (indiv. wrapped), 17.5" (25/pk)
- 334700 Sheath, Stip-Tip™ - 1/2cc & 1/4cc Unslit with Rounded-tip, 17.5" (25/pk)
- 334621 Sheath, Stip-Tip™ - 1/2cc & 1/4cc Slit with Rounded-tip, 20.5" (25/pk)
- 334622 Sheath, Stip-Tip™ - 1/2cc & 1/4cc Slit with Rounded-tip (indiv. wrapped), 20.5" (25/pk)

CIDRs & CIDR SUPPLIES

CIDRs are vaginal implants used to help synchronize estrus in suckled beef cows (or small ruminants, depending on the CIDR™ type), and replacement beef and dairy heifers. Also used for advancement of first postpartum estrus in suckled beef cows and first pubertal estrus in replacement beef heifers or for synchronizing return to estrus in lactating dairy cows inseminated at the immediately preceding estrus. At removal of the implant on treatment day seven, there is a rapid fall in plasma progesterone levels, which results in synchronization of estrus in those animals responding to treatment.

The implants contain 1.38 grams of progesterone in molded silicone over a flexible nylon spine. Attached to each CIDR insert is a polyester tail. Insertion of the CIDR is accomplished via reusable CIDR application gun. Also available is the CIDR applicator for small ruminants.

- 325110 Eazi-Breed™ CIDRs® - Bovine (10/pk)
- 325115 CIDR® Applicator Gun (each)
- 325112 CIDR® II Inserts - Goats, Sheep & Deer
- 325116 CIDR® II Applicator Gun (each)



022002



022000



022004



022001



022006



022005



022003

NON-SPERMICIDAL LUBRICANTS

We offer a variety of lubricants to help make your artificial insemination and embryo transfer work as trouble-free and successful as possible. From one ounce tubes of sterile jelly to 2.5 gallon jugs of O.B. lube, we've got a lubricant to suit your needs. Excepting the mineral oil and glycerin (page 35), all of our lubricants are formulated as non-spermicidal.

Priority Care General Lubricant (G.P. Lube) (022001) has been widely known and used in our industry for many years. It is a viscous all-purpose, non-spermicidal lube ideal for gynecological and rectal exams. It's formulation aids in minimizing irritation to both the operator's skin and membranes of the animal. Available in individual gallon size, by the case of 4 gallons (which includes a handy dispensing pump), or by the 8 oz 'hip flask'. The 8 oz size, with its flip-top dispensing cap, is extra handy for use in kit boxes or tucked into a pocket. A similar product in viscosity and usage applications is our own RR O.B. Lube (022003). It is also a non-spermicidal general purpose formulation, available in either gallon size or in the extra-large 2.5 gallon jug.

LuboGel VI™ (022006) also fits into the general purpose lubricant category. LuboGel VI™ has been a favorite of many customers for years. It is available in either an 8 oz 'hip flask' bottle with flip cap or by the gallon 'K' bottle. The 'K' bottle has a convenient ergonomic top-handle design.

X-Ceed™ Collection Lubricant was developed by our team specifically as a quality collection and insemination lube. Created with sperm cells in mind, this lube is slightly thicker than our OB Lube but slightly thinner than a 'jelly' lube. The combination of ideal pH and balanced osmotic pressure offers a healthy environment for sperm cells. Priority Care™ Non-Spermicidal Sterile Lubricating Jelly (026660) is one of the most popular lubes in the industry. This thicker-consistency 'jelly' lube is ideal for medical and gynecological procedures requiring a sterile and non-spermicidal lubricating jelly. The convenient flip-top tube makes dispensing a snap. Water soluble, so cleanup is easy and complete. Sold individually, by the box of 12, or full case of 72 tubes.

Our 1-and-Done™ (026661) one ounce tubes are a handy single-use lubricant. Great as an addition to a kit or for mobile veterinarians.

- 022000 Priority Care™ General Lubricant [G.P. Lube] - 8 oz (each)
- 022001 Priority Care™ General Lubricant [G.P. Lube] - 1 gal (each)
- 022003 RR O.B. Lube - 1 gal (each) [or 4/case]
- 022004 RR O.B. Lube - 2.5 gal (each) [or 2/case w/ (1) Pump]
- 022005 LuboGel VI Lubricant - 8 oz (each)
- 022006 LuboGel VI Lubricant w/Pump - 1 gal (each) [or 4/case]
- 022002 Pump, for 1 Gallon Bottle (each)
- 022010 Pump, for 2.5 Gallon Bottle (each)

Ultrasound Gel can be found on page 45

- 023006 X-CEED™ Collection Lubricant - 5 oz Tube (each) [12/box]
- 026660 Priority Care™ Non-Spermicidal Sterilzd. Jelly - 5 oz Tube (each) [72/case]
- 026661 1-and-Done™ Non-Spermicidal Jelly - 1 oz Tube (each) [24/box]



023006

THE LUBRICATING JELLY ENGINEERED FOR SPERM CELLS!

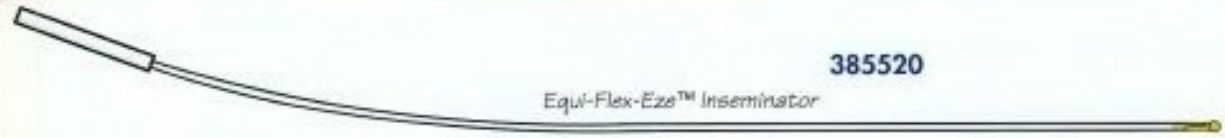


026660



026661

GREAT FOR SINGLE-USE APPLICATIONS SUCH AS INSEMINATION KITS!



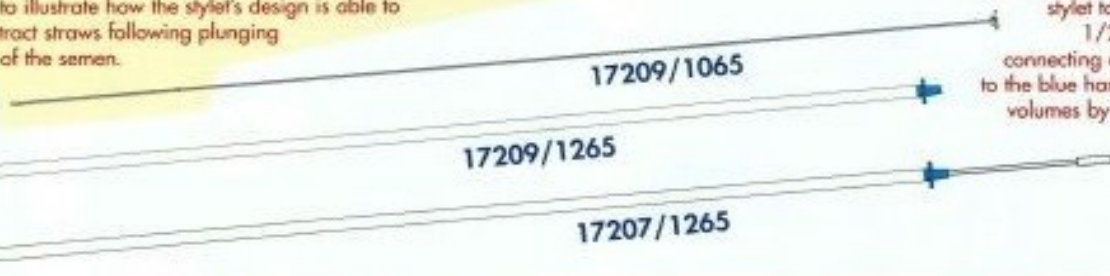
385520

Equi-Flex-Eze™ Inseminator



This is an enlarged detail of the Equine IUI Stylet's straw end to illustrate how the stylet's design is able to retract straws following plunging of the semen.

Minitube's Equine IUI Pipettes can be used either with a specialized stylet to inseminate with 1/2cc straws, or by connecting a luer-tip syringe to the blue handle, or for small volumes by the use of a fine inner catheter with syringe adapter.



17209/1065

17209/1265

17207/1265



984553 984554

HEAT DETECTION AIDS

We carry a range of tail contact devices for bovine estrous detection. Tell Tail™ Paint comes in 500ml aerosol can form. The paint is simply sprayed in a line/bead down the tailhead for application. When the cow in heat is mounted, the paint bead wears or breaks off. Available in fluorescent blue or pink. A second option using a paint stripe comes via Paint Sticks. These fluorescent marking sticks apply much like an oversized pastel stick or crayon. The bright colors are easily detectable. Estroprotect™ Tail Patches have been a popular addition to our heat detecting family. The patches are an adhesive-backed system that utilizes a 'scratch-off' design (much like an instant lottery ticket) that when rubbed off from repeated mounting reveals a brightly colored base. With proper tail prep these patches are highly effective.

- 984553 Tell Tail Fluorescent Tail Marker Paint, Blue (500ml aerosol can)
- 984554 Tell Tail Fluorescent Tail Marker Paint, Pink (500ml aerosol can)
- 984530 Paint Sticks, Bright Orange (12/box)
- 984536 Paint Sticks, Fluorescent Pink (12/box)
- 984590 Estroprotect™ Patches, Red-Orange (5/sheet)
- 984594 Estroprotect™ Patches, Blue (5/sheet)
- 984592 Estroprotect™ Patches, Green (5/sheet)
- 984593 Estroprotect™ Patches, Fuchsia (5/sheet)
- 984598 Estroprotect™ Tail Prep Tack Cloth (each)
- 984599 Estroprotect™ Rubber Tail Brush (each)



984530

As the cow accepts more and more standing mounts, more of the rub-away surface is removed to reveal the bright color beneath - an easily identifiable indication of heat!



984594

DEEP-HORN INSEMINATOR TUBES

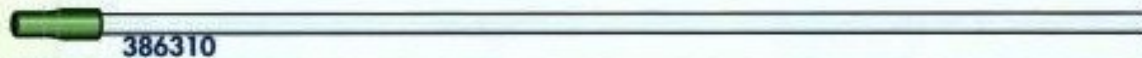
In addition to the standard length insemination tubes, we carry the EquiFlex-Eze™ Inseminator tube - ideal for deep-horn inseminations. Constructed of plastic like a standard insemination tube, but the thinner diameter design allows flexibility enough to twist and flex the tube. The EquiFlex-Eze™ Inseminator is a 30" tube (clear with a chartreuse-colored tip) with a luer syringe adapter. The forward tip of this inseminator has a very slightly enlarged 'ball' shape for detection during insertion with dual side exit ports. This tip makes training an easier process as well with the ability to detect the tip. An ideal solution for low volume frozen semen or deep uterine inseminations. Individually wrapped and sterilized, 5 per pack.

The Minitube Equine IUI Pipette™ is for deep-horn insemination. The unique stainless steel stylet used along with the pipette is designed to plunge the straw's contents and then withdraw the straw from the tube so that additional straws can be loaded and plunged while the pipette is still within the mare. The pipette also has a luer-slip syringe fitting for insemination via syringe, and a third version for syringe insemination with thawed or low-volume A.I. using a small diameter inner catheter along with the pipette. Call for details.

- 385520 Equi-Flex-Eze™ Inseminator, Individ. Wrapped & Sterilized (with Ball Tip) - 30" (5/pk)
- 17207/1165 Equine IUI Pipette with Inner Catheter, 65cm long (5/pk)
- 17207/1265 Equine IUI Pipette with Inner Catheter, 65cm long (each)
- 17207/1275 Equine IUI Pipette with Inner Catheter, 75cm long (each)
- 17209/1165 Equine IUI Pipette, 65cm (5/pk)
- 17209/1265 Equine IUI Pipette, 65cm (each)
- 17209/1275 Equine IUI Pipette, 75cm (each)
- 17209/0005 Equine IUI Pipette, 57cm (5/pk)
- 17209/1057 Stylet (stainless) for Equine IUI Pipette, 57cm (each)
- 17209/1065 Stylet (stainless) for Equine IUI Pipette, 65cm (each)
- 17209/1075 Stylet (stainless) for Equine IUI Pipette, 75cm (each)



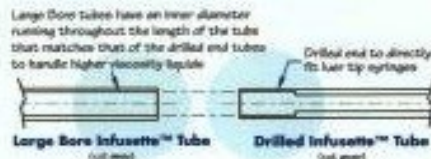
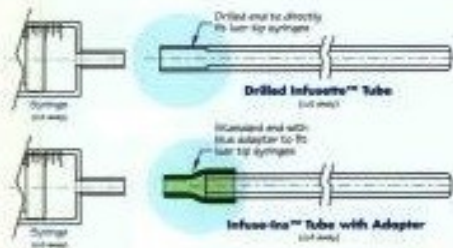
Most of the infusion tubes are offered in an individually wrapped and ETO sterilized option. Each tube has its own wrapper and is then packaged in bags of 25.



385101



Looking for insemination tubes as part of a kit? Check out the EQUINE SECTION (pgs 50-61) in this catalog for horse insemination kit options.
Looking for canine-length insemination tubes? Check out our CANINE SECTION (pgs 36-39) for 10" and smaller tube options and customized canine kits!



INSEMINATION / INFUSION TUBES / PIPETTES

We carry a wide range of insemination/infusion tubes to fit a wide range of preferences. From plain to drilled end to adapter fitted, we have the tube you're looking for. The basic tube is manufactured of slightly flexible PVC plastic. Tubes have an inside diameter of 0.11" (2.8mm) and an outside diameter of 0.196" (5mm). They are used for either insemination of animals via syringe or for the infusion of medications into large animals via syringe. Options on the basic tube vary from length to inner bore diameter to flexible tip fittings. 18" and 21" versions of the infusion tube are available in a "large-bore" format, where the inner diameter is 0.16" (4mm) and the outside 0.225" (5.7mm) for higher viscosity solutions. The 18" and 21" tubes are also available with either a drilled end or adapter-tipped end. The drilled-end versions are manufactured from polypropylene, which tends to make them smoother to the feel. Both of these options are designed to fit luer-tipped syringes. The drilled version is bored into the tube 0.32" (8mm) to match the tip of a standard luer-slip syringe with an inside diameter of 0.16" (4mm). It is a matter of preference – some prefer a direct connection between syringe and tube (drilled end) and some prefer the flexibility that the softer syringe adapter imparts. All of these tubes – from 18" drilled through 25" with flexible adapter – are available in either bulk packs of 25 tubes, or most commonly, individually wrapped and sterilized in packs of 25.

BULK PACKAGING PRODUCTS – NON-STERILE (25/PK)

- 010140 Tube Adapters (100/bag)
- 385100 Infusion/Insemination Tubes, Standard 18" (25/pk)
- 385120 Infusion/Insemination Tubes, Large Bore – 18" (25/pk)
- 386125 Infusion/Insemination Tubes with Syringe Adapter – 18" (25/pk)
- 385130 Infusion/Insemination Tubes, Drilled End – 18" (25/pk)
- 385200 Infusion/Insemination Tubes, Standard – 21" (25/pk)
- 385220 Infusion/Insemination Tubes, Large Bore – 21" (25/pk)
- 386225 Infusion/Insemination Tubes with Syringe Adapter – 21" (25/pk)
- 385230 Infusion/Insemination Tubes, Drilled End – 21" (25/pk)
- 386310 Infusion/Insemination Tubes with Syringe Adapter – 22" (25/pk)
- 386410 Infusion/Insemination Tubes with Syringe Adapter – 25" (25/pk)
- 386710 Infusion/Insemination Tubes with Syringe Adapter – 30" (25/pk)

INDIVIDUALLY WRAPPED AND STERILIZED PRODUCTS (25/PK)

- 386101 Infusion/Insemination Tubes with Syringe Adapter, Indiv. Wrapped & Sterilized – 18" (25/pk)
- 385131 Infusion/Insemination Tubes, Drilled End, Indiv. Wrapped & Sterilized – 18" (25/pk)
- 386201 Infusion/Insemination Tubes with Syringe Adapter, Indiv. Wrapped & Sterilized – 21" (25/pk)
- 385231 Infusion/Insemination Tubes, Drilled End, Indiv. Wrapped & Sterilized – 21" (25/pk)
- 386315 Infusion/Insemination Tubes with Syringe Adapter, Indiv. Wrapped & Sterilized – 22" (25/pk)
- 386415 Infusion/Insemination Tubes with Syringe Adapter, Indiv. Wrapped & Sterilized – 25" (25/pk)
- 386715 Infusion/Insemination Tubes with Syringe Adapter, Indiv. Wrapped & Sterilized – 30" (25/pk)

Canine insemination tubes in a wide range of styles can be found in the Canine section of this catalog.

BOVINE TRICHOMONIASIS KIT

A disposable kit designed for pulling prepartal samples from bulls. Includes a 28-inch collection catheter and 19-inch tube protector with perforated tip. The trich kit is designed to be used with an optional rubber suction bulb. Individually wrapped and sterilized, sold individually.

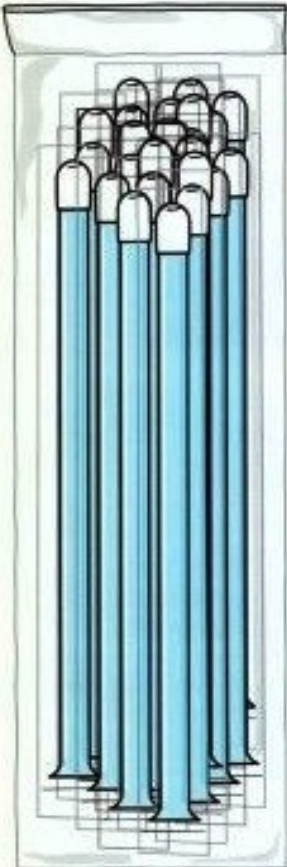
- 077575 Bovine Trich Kit, Disposable (without bulb)
- 077577 Rubber Bulb Only for Bovine Trich Kit



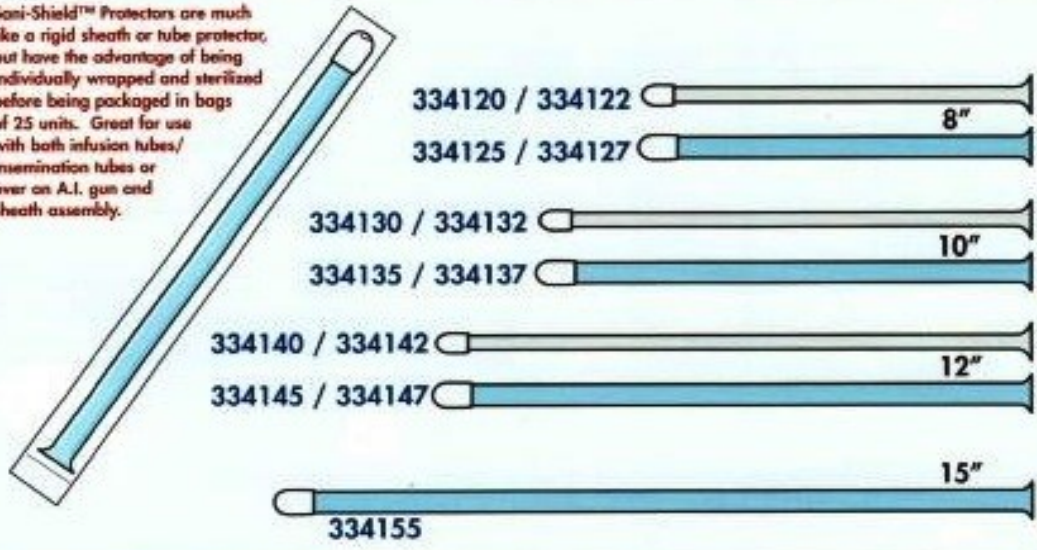
DID YOU KNOW...
21"–25"
Infusion tubes can be an alternate option for performing embryo transfers with larger equine embryos? Using a 2cc syringe, the embryo can be seeded into the tube with holding media and injected when straw diameters are inadequately small.

Common Lengths/ Selections for Bovine Insemination/Infusion
18" Drilled
18" Standard
18" w/Adapter
18" Large Bore
21" Drilled
21" Standard
21" w/Adapter
21" Large Bore

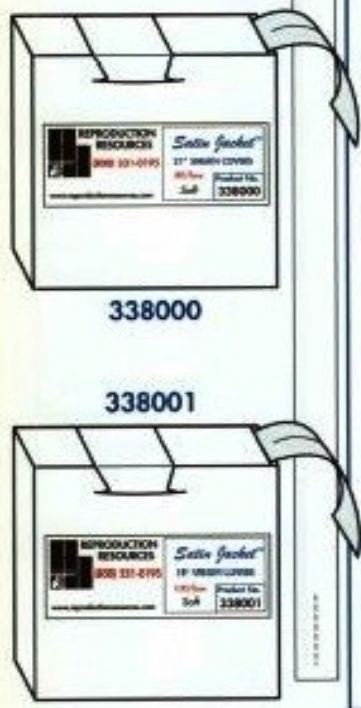
Common Lengths/ Selections for Equine Insemination/Infusion
21" Drilled
21" w/Adapter
21" Large Bore
22" w/Adapter
25" w/Adapter
30" w/Adapter



Sani-Shield™ Protectors are much like a rigid sheath or tube protector, but have the advantage of being individually wrapped and sterilized before being packaged in bags of 25 units. Great for use with both infusion tubes/ insemination tubes or over an A.I. gun and sheath assembly.



Use the large diameter protectors (blue) for infusion tubes and disposable A.I. guns. Use the small diameter protectors (clear) with most A.I. gun/sheath assemblies.



SHEATH & TUBE PROTECTORS

These standard protectors are made of PVC plastic. A slim yet rigid design to aid in the protection of insemination sheaths and insemination tubes as they pass through the vaginal canal to prevent the transfer of contaminants into the uterus. The protectors are designed with a flared opening so they are easy to hold onto as the tube or sheath pushes through the perforated tip at the anterior end. The sheath protector is 12 inches in length and has a slightly smaller outside diameter (O.D.) than the tube protector. The tube protectors are available in either 12 inch or 15 inch lengths. All are packaged 25 per pack. Non-sterile.

- 334100 Sheath Protector - 12" (25/pk)
- 334112 Tube Protector - 12" (25/pk)
- 334115 Tube Protector - 15" (25/pk)

SANI-SHIELD PROTECTORS™

Sani-Shield Protectors™ are constructed just as the sheath protectors are, listed above, but all are individually wrapped and gamma irradiated. A slim yet rigid design to aid in the protection of insemination sheaths and insemination tubes as they pass through the vaginal canal to prevent the transfer of contaminants into the uterus. The protectors are designed with a flared opening so they are easy to hold onto as the tube or sheath pushes through the perforated tip at the anterior end. Available in large or small diameter to accommodate either sheaths or tubes, the Sani-Shield Protectors™ are also available in a wider range of configurations – both in length and perforation style. The traditional 'turret-tip' design has a horseshoe-shaped perforation, so when the gun passes through, a round porthole door pushes aside. The newer 'X-tip' perforation design has the gun assembly pushing through the center of the x-shaped perforation. See the item listing below for lengths. All are individually wrapped and sterilized, packaged 25 per pack.

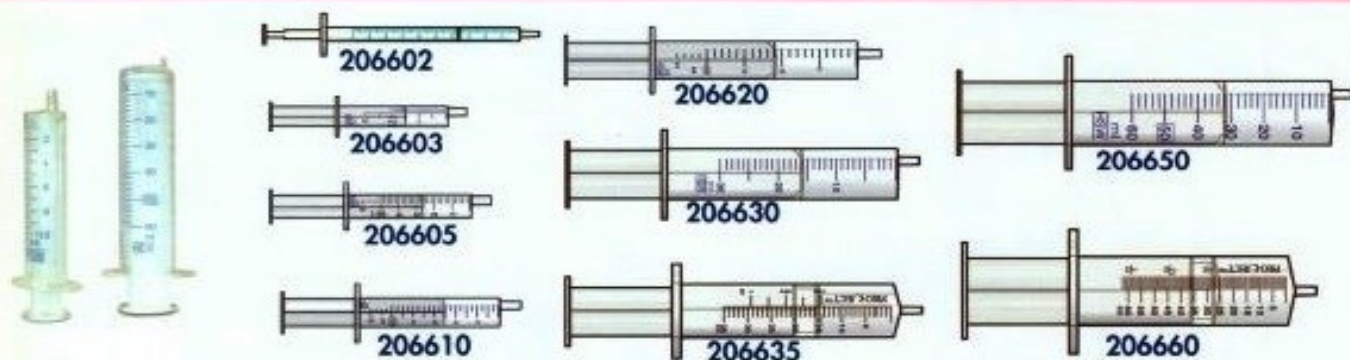
- 334120 Sani-Shield Protector™, X-tip, Small diameter - 8" (25/pk)
- 334122 Sani-Shield Protector™, Turret-tip, Small diameter - 8" (25/pk)
- 334125 Sani-Shield Protector™, X-tip, Large diameter - 8" (25/pk)
- 334127 Sani-Shield Protector™, Turret-tip, Large diameter - 8" (25/pk)
- 334130 Sani-Shield Protector™, X-tip, Small diameter - 10" (25/pk)
- 334132 Sani-Shield Protector™, Turret-tip, Small diameter - 10" (25/pk)
- 334135 Sani-Shield Protector™, X-tip, Large diameter - 10" (25/pk)
- 334137 Sani-Shield Protector™, Turret-tip, Large diameter - 10" (25/pk)
- 334140 Sani-Shield Protector™, X-tip, Small diameter - 12" (25/pk)
- 334142 Sani-Shield Protector™, Turret-tip, Small diameter - 12" (25/pk)
- 334145 Sani-Shield Protector™, X-tip, Large diameter - 12" (25/pk)
- 334147 Sani-Shield Protector™, Turret-tip, Large diameter - 12" (25/pk)
- 334155 Sani-Shield Protector™, X-tip, Large diameter - 15" (25/pk)



SATIN JACKET™ SHEATH COVERS

Available in either 18-inch or 21-inch sizes, these tubular bags are designed to slip over gun/sheath assemblies to keep them clean as they pass through the vaginal canal. Perforated tips and a perforated slit for looping a finger through to hold in place. These covers are manufactured of an ultra-soft 'satin-feeling' material and come in a handy dispenser box. The 21" Satin Jacket™ covers are packaged 80 per roll, the 18" length covers are packaged 100 per roll.

- 338000 Sheath Covers, Satin Jacket™ - 21" (80/roll - dispenser box)
- 338001 Sheath Covers, Satin Jacket™ - 18" (100/roll - dispenser box)



SYRINGES - LUER-TIP

Plastic disposable syringes are an important component of artificial insemination and embryo transfer. We carry a wide variety of sizes of the popular luer-tipped syringes to suit the needs of breeders and practitioners. Whether it's a dog, horse, cow, camel or turkey, we've got the syringe to fit your request. Most popular are the all-plastic luer-slip syringes. These work well with needles and insemination/infusion tubes alike. Also available in select sizes are plastic syringes with rubber stoppers and select luer-lock-tipped syringes. All are graduated for accurate dispensing and all are individually wrapped and sterilized. These syringes are most commonly sold by the box, but it is not required. The listing below shows size, manufacturer, and box quantities.

- 206601 Syringe, Indiv. Wrapped & Sterilized (Braun®) - 1cc TB (100/box)
- 206602 Syringe, Indiv. Wrapped & Sterilized (Baxa®), w/Rubber stopper - 1cc (100/box)
- 206603 Syringe, Indiv. Wrapped & Sterilized (Airtite®) - 3cc (100/box)
- 206605 Syringe, Indiv. Wrapped & Sterilized (Airtite®) - 5cc (100/box)
- 206606 Syringe, Indiv. Wrapped & Sterilized (Monoject®), w/Rubber stopper - 6cc (50/box)
- 206610 Syringe, Indiv. Wrapped & Sterilized (Airtite®) - 10cc (100/box) [graduated to 12cc]
- 206612 Syringe, Indiv. Wrapped & Sterilized (Monoject®), w/Rubber stopper - 12cc (80/box)
- 206613 Syringe, Indiv. Wrapped & Steril. (Monoject®), w/Luer-Lock tip & Rubber stopper - 12cc (80/box)
- 206620 Syringe, Indiv. Wrapped & Sterilized (Airtite®) - 20cc (100/box)
- 206630 Syringe, Indiv. Wrapped & Sterilized (Airtite®) - 30cc (50/box)
- 206632 Syringe, Indiv. Wrapped & Sterilized (Airtite®), w/Luer-Lock tip - 30cc (50/box)
- 206635 Syringe, Indiv. Wrapped & Sterilized (Pro-Ject®) - 35cc (50/box)
- 206650 Syringe, Indiv. Wrapped & Sterilized (Airtite®) - 50cc (30/box)
- 206660 Syringe, Indiv. Wrapped & Sterilized (Pro-Ject®) - 60cc (30/box)
- 206680 Syringe, Indiv. Wrapped & Sterilized (Pro-Ject®) - 80cc (25/box)

A note regarding syringe volumes:

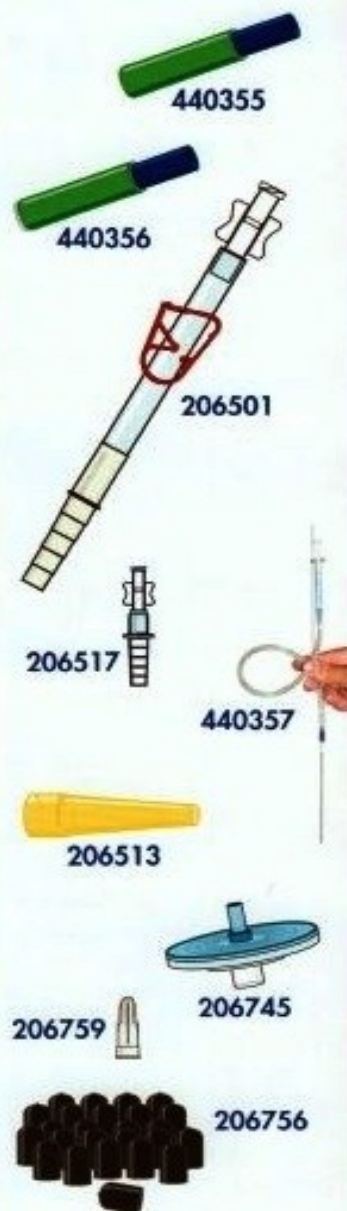
Most syringes are listed at a particular volume, but actually have volume graduation marks slightly beyond their designation.

5cc syringes have markings to 6cc, 10cc syringes have markings up to 12cc, 50cc syringes are marked up to 60cc and so forth.

SYRINGE FILTERS/ADAPTERS/ACCESSORIES

All of the extras that are associated with syringes, from sterile syringe filters to end caps to adapters that allow linkup with catheters, pipette tips and straws. We carry three styles of syringe-to-catheter adapters. All are designed for use with luer-tipped syringes. Some include a PVC tubing section with clamp and all are sold individually. The syringe-to-pipette tip adapters are designed to link the standard luer-slip syringe to either the General Purpose Pipette Tip (*701251,701252) or the Embryo Handling Tip (*701212) found on page 26 of this catalog. We've also developed syringe adapters that allow linkup with 1/4cc or 1/2cc insemination/embryo straws. We carry the popular AcroDisc® syringe filters in mesh sizes of 0.2µm and 0.45µm. Syringe caps are available in either clear plastic or black neoprene - they're a simple watertight luer-slip cap designed for all syringe sizes (and non-spermicidal).

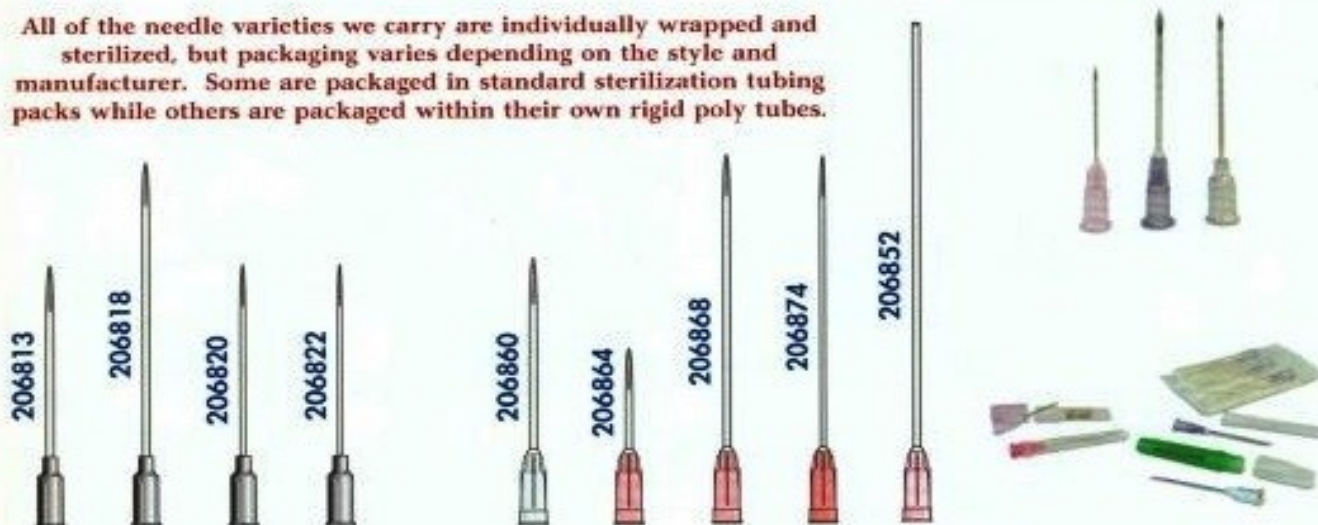
- 206501 Syringe Adapter for Foley Catheter, luer-tip - 6" tube w/clamp (each)
- 206503 Syringe Adapter for Foley Catheter, luer-tip - 2.25" tube w/clamp (each)
- 206505 Syringe Adapter for Foley Catheter, luer-tip - 12" tube (each)
- 206512 Syringe Adapter for General Purpose Pipette Tip (*701251) (each)
- 206513 Syringe Adapter for Embryo Handling Tip (*701212) (each)
- 206747 Syringe Filter, Sterilized (Corning®) - 0.2µm (each)
- 206745 Syringe Filter, Sterilized (AcroDisc®) - 0.45µm (each)
- 440352 Adapter, Micro-CL to General Purpose Tip (each)
- 440355 Adapter, 2cc (or greater) Syringe to 1/4cc or 1/2cc Straw (each)
- 440356 Adapter, 1cc TB Syringe to 1/4cc or 1/2cc Straw (each)
- 440357 Adapter w/tubing for 1cc TB Syringe to 1/4cc or 1/2cc Straw (each)
- 206756 Syringe End Caps, Black Neoprene (100/pk)
- 206759 Syringe End Caps, Clear Plastic (100/pk)



Looking for a particular adapter?

If you're looking to connect two devices you don't see on our adapters list here, tell us what you're looking for. Odds are, we can make it for you. If it's handy for you, it would likely be handy for others as well, and we'll add it to our assortment!

All of the needle varieties we carry are individually wrapped and sterilized, but packaging varies depending on the style and manufacturer. Some are packaged in standard sterilization tubing packs while others are packaged within their own rigid poly tubes.



034800

Rx

FOLLTROPIN® is a prescription product and must be purchased by a veterinarian. Under the veterinarian's supervision, it is permissible to have the product shipped directly to a customer of the veterinarian in time-sensitive circumstances. A copy of our prescription form is on the following page.

Storage and shipping of the un-reconstituted product does not require refrigeration.



998565

NEEDLES - ALUMINUM & PLASTIC HUB

Standard stainless steel needles in a variety of gauges and lengths, with either aluminum luer hubs or plastic luer hubs. The luer hubs can be used with either standard luer hub syringes or luer lock hub syringes. All needles are designated as a single-use disposable item. All are individually wrapped and sterilized, packaged 100 per box.

The blunt-tip 2.5" needle is not used for injection purposes, but commonly for moving samples of liquids (semen, blood, embryo media) between dishes or microscope slides for analysis. It does not have a sharpened puncture-style tip.

- 206806 Needles w/Aluminum Hub - 14 gauge x 1" (100/box)
- 206808 Needles w/Aluminum Hub - 14 gauge x 1.5" (100/box)
- 206813 Needles w/Aluminum Hub - 16 gauge x 1" (100/box)
- 206812 Needles w/Aluminum Hub - 16 gauge x 1.5" (100/box)
- 206816 Needles w/Aluminum Hub - 18 gauge x 0.75" (100/box)
- 206818 Needles w/Aluminum Hub - 18 gauge x 1.5" (100/box)
- 206820 Needles w/Aluminum Hub - 20 gauge x 1" (100/box)
- 206821 Needles w/Aluminum Hub - 20 gauge x 1.5" (100/box)
- 206822 Needles w/Aluminum Hub - 22 gauge x 1" (100/box)

- 206860 Needles w/Plastic Hub - 16 gauge x 1" (100/box)
- 206845 Needles w/Plastic Hub - 16 gauge x 1.5" (100/box)
- 206864 Needles w/Plastic Hub - 18 gauge x 0.5" (100/box)
- 206868 Needles w/Plastic Hub - 18 gauge x 1.5" (100/box)
- 206870 Needles w/Plastic Hub - 20 gauge x 0.5" (100/box)
- 206872 Needles w/Plastic Hub - 20 gauge x 1" (100/box)
- 206874 Needles w/Plastic Hub - 20 gauge x 1.5" (100/box)

- 206852 Needles, Blunt-Tip - 18 gauge x 2.5" (100/box)

FOLLTROPIN® FOLLICLE STIMULATING HORMONE

Manufactured by Vetoquinol, Folltropin® is designed for superovulation via a series of timed injections. It is packaged in a 20ml 'dose' box with one vial containing the lyophilized compound and a second vial with the sterile diluent. When mixed together, the vials contain the correct volume of hormone (20ml) for the specified protocol of injections for one animal (based on standard bovine usage). Protocol and instructions included with every box. Folltropin is a prescription product. Veterinary use only. MAP-5™ is a patented salt of hyaluronic acid in normal saline for use in the collection, handling, culture and cryopreservation of embryo, ova, sperm and other cells. It can be used in conjunction with Folltropin® to reduce the frequency of injections during the sequence.

- 034800 Folltropin® Follicle Stimulating Hormone (20ml box)
- 037800 MAP-5™ (10ml)

PG-600®

PG-600® is a combination of 400 IU Pregnant Mare Serum Gonadotropin (PMSG) and 200 IU Human Chorionic Gonadotropin (HCG). It is used to induce fertile heat, primarily for swine.

- 998565 PG-600® (25 ml) - 5-dose bulk vial (each)



164010

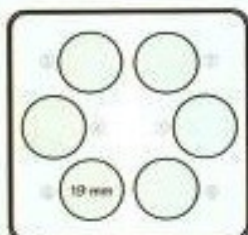


164020



6 mm depth

164059



13 mm depth

164060



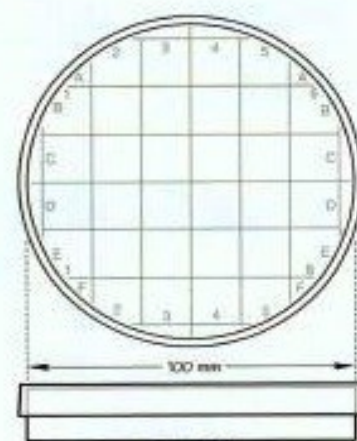
164055



164056



164031



164030

SEARCH DISHES

We carry a wide range of disposable dishes for use in embryo transfer. From searching to washing and dehydrating to thawing. The Ova Transfer Dish resembles a small clear cereal bowl. It has a 120cc capacity and is manufactured of clear polystyrene plastic. They're gamma irradiated and packaged 12 per pack. Next is the Small Dish with Lid (also called a Tissue Culture Dish). These dishes are 35mm across and 10mm deep (9 ml volume), made of a non-gridded clear plastic. They're packed 20 per sleeve and sterilized in pack form. The next size up is the Medium Dish with Lid. It's 60mm across and 15mm deep. Also clear, 20 per pack and sterilized. These have a gridded base for ease in searching. Our large-sized dishes are available in three options: Round and ungridded (*164035), Round with base grid (*164030), and Square with base grid (*164031). All three versions are 100mm across and 15mm deep. The square version has a slightly larger volume due to its geometry. The two round versions are packaged 20 per pack, the square gridded dishes are packaged 10 per pack. All are sterilized.

- 164010 Dish, Ova Transfer [drying bowl] (12/pk)
 164020 Dish, Small w/Lid - 35mm x 10mm (20/pk)
 164029 Dish, Medium w/Lid, Gridded - 60mm x 15mm (20/pk)
 164035 Dish, Large w/Lid, Round, No Grid - 100mm x 15mm (20/pk)
 164030 Dish, Large w/Lid, Round, Gridded - 100mm x 15mm (20/pk)
 164031 Dish, Large w/Lid, Square, Gridded - 100mm x 15mm (10/pk)
 164040 Dish, Large w/Lid, Round, Gridded - 150mm x 25mm (10/pk)

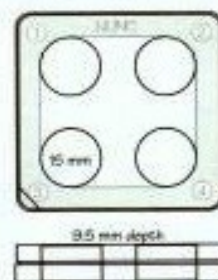
There are two common well shapes for the multi-well dishes - "bowl"-shaped and "squared"-bottom (cylindrical shaped well). The 2-well, 4-well, and 6-well shallow dishes have the "bowl"-shaped design. The 4-well Nunclon™ dish and 6-well Deep have the "squared"-bottom design.

Powered dish-warming plate can be found on page 33.

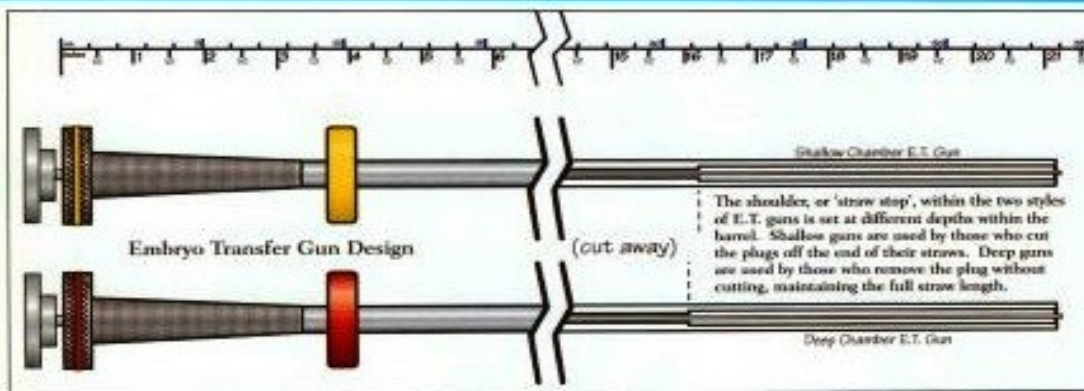
MULTI-WELL DISHES

We carry 'welled' dishes in multiple formats, too. All of the multi-well 'wash' dishes are individually wrapped within their packages and all have lids and are sterilized. The 2-well dishes have a bowl-shaped well and come 20 per pack. The standard 4-well dishes also have a bowl-shaped well and are packaged 10 per pack. The 4-well Nunclon™ dishes are a smaller design dish with more of a squared-off, flatter-style base to their well design. The well is cylindrical in shape. Note that these are sterilized together in a pack of 4 dishes as opposed to individual wrapping within the pack. Lastly, we carry two styles of 6-well dishes - shallow and deep well. The shallow well design has a bowl-shaped well with a 6mm depth. The deep well design is much like the 5-well dish, with a flatter base to the well and a depth that drops 13mm.

- 164055 Dish, 2-well w/Lid (20/pk)
 164056 Dish, 4-well w/Lid (10/pk)
 164057 Dish, 4-well w/Lid [Nunclon™] (4/pk)
 164059 Dish, 6-well w/Lid - Shallow (10/pk)
 164060 Dish, 6-well w/Lid - Deep (10/pk)



164057



703276

The 1/4cc embryo transfer guns in conjunction with the ever-popular blue E.T. sheaths are used industry-wide for embryo implantation in cattle. The sheaths are packaged 5 per pack and are available in standard form or individually wrapped and sterilized within the pack. There are many who use the individual wrapping as a makeshift sheath cover.



704320



704331

704320/
704330

EMBRYO TRANSFER GUNS

The standard embryo transfer gun is used for the implantation of fresh or frozen embryos from 1/4cc straws. They're manufactured of stainless steel and are 21 inches in length, with an O-ring style sheath-securing design. The device consists of a long barrel with a flange at the hand-held end and a plunger within it. There are two basic variations to the E.T. gun – the 'shallow' version and 'deep' version. This refers to the straw seating shoulder within the barrel. Since some embryo transfer specialists prefer to cut the sealed ends off their straws to implant and some prefer to utilize removable straw plugs rather than cut seals off, there are varying shoulder depths to accommodate each style. Those who snip the end off the straws will end up with a shorter overall length straw, so the Shallow E.T. gun would be the proper option, because the straw seating shoulder is closer to the tip to allow proper seating with the sheath. Those who pull the straw plugs out and use the straw's full length would use the Deep E.T. gun, with the straw seating shoulder further back within the barrel. It basically ensures that no matter which method is preferred that the same amount of straw protrudes from the barrel for proper seating with the E.T. sheath. The metal or plastic-tipped side-ported embryo transfer sheath will slide over this setup and be secured to the gun with the O-ring. We also offer an Equine E.T. gun for use with 1/2cc straws only (utilizing either the 1/2cc sheath *704318 or forward delivery sheath *704440). The Dual-Mate™ gun can accommodate both 1/4cc or 1/2cc straws. It CANNOT be used with the standard blue embryo transfer sheaths, however. Use of the Dual-Mate™ gun for E.T. would be with the 20.5" Stip-Tip™ sheaths (*334622, page #12) or with the 21" 1/2cc 2mm aperture Forward Delivery Sheath (*704440) for equine applications.

- 703350 Embryo Transfer Gun - Shallow Chamber, 21" [Stainless] (each)
 703351 Embryo Transfer Gun - Deep Chamber, 21" [Stainless] (each)
 703276 Extra O-ring for E.T. Guns [Shallow OR Deep] (each)
 703352 Equine Embryo Transfer Gun (for 1/2cc straws) - Deep Chamber, 21" [Stainless] (each)
 363221 Dual-Mate™ A.I./E.T. Gun, 21" [Stainless] (each)

Looking for disposable E.T. guns?
Find them on page 11!

EMBRYO TRANSFER SHEATHS

The rounded-tipped, side-ported embryo transfer sheath has been a standard for many years now, due to tried and true performance. This 21" sheath is designed to be used with either the shallow or deep 1/4cc embryo transfer gun (see above). When slid over the E.T. gun, the sheath seats the straw into it's tip, and upon plunging the gun, the straw's contents are ejected through the two side ports in the tip. These sheaths are a 'slit' style sheath, designed for O-ring style E.T. guns. Available in a wide array of packaging options (see below).

- 704330 Embryo Transfer Sheath w/Metal Tip & Side Ports (5/pk)
 704331 Embryo Transfer Sheath w/Metal Tip & Side Ports, Indiv. Wrapped (5/pk)
 704332 Embryo Transfer Sheath w/Metal Tip & Side Ports, Indiv. Wrapped (each)
 704337 Embryo Transfer Sheath w/Metal Tip & Side Ports, Indiv. Wrapped (25/pk)
 704325 Embryo Transfer Sheath w/Metal Tip & Side Ports, Double Wrapped (5/pk)
 704530 Embryo Transfer Sheath w/Plastic Tip & Side Ports (5/pk)
 704531 Embryo Transfer Sheath w/Plastic Tip & Side Ports, Indiv. Wrapped (5/pk)
 704537 Embryo Transfer Sheath w/Plastic Tip & Side Ports, Indiv. Wrapped (25/pk)
 704318 Equine 1/2cc Embryo Transfer Sheath w/Metal Tip & Side Ports, Dbl Wrapped (each)
 704440 Equine 1/2cc E.T. Sheath - Forward Delivery Stip-Tip™ w/2mm aperture (5/pk)

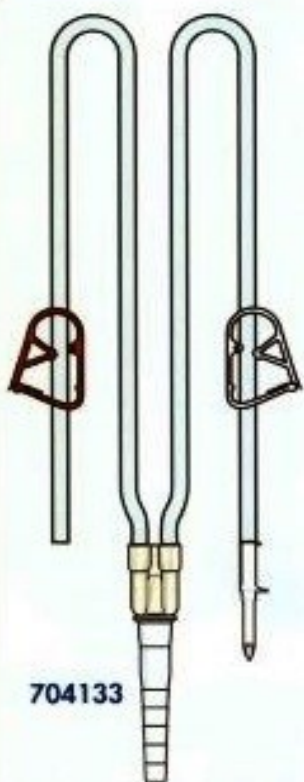
You've seen them with metallic tips since their onset. You've seen plastic-tipped versions in the past couple of years. This one nailed it!

Our precision-formed plastic-tipped embryo transfer sheath is tried & tested – and made in the United States.

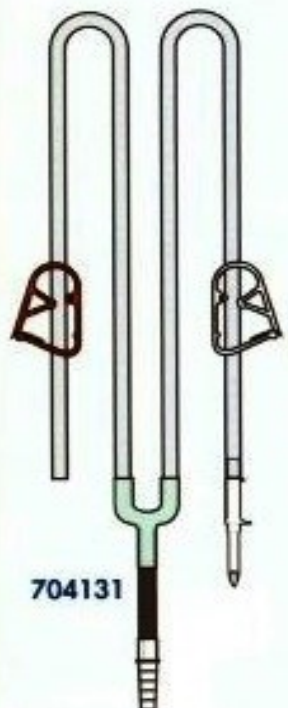
- Clean injection-molded tip with no parting line marks or blisters
- Tips are bonded onto the sheath tubing preventing the chance of a lost tip
- Precision fitting results in a smooth fit where the tip and the sheath meet
- Reduced cost as compared to stainless steel tips



Functions with the standard 1/4cc E.T. gun, just as its metal-tipped sibling.



704133



704131



704135



134820

Closeup of the multi-port flushing end of #134820



206517



134800

704130



704139

Y-JUNCTION FLUSH TUBING SETS

How do you make your embryo flushing a hassle-free, smooth-flowing experience? Use our ever-popular Y-junction tubing sets. The Y-junction tubing set consists of two 60 inch lengths of PVC star tubing (the tiny grooves that run the length of the tubing help to prevent flow-hindering 'crimping' of the tube). This tubing style is recognized for its ability to perform and close with the clamps no matter the temperature extremes (which can be a factor in colder climates). Each of these 60 inch lengths is connected to a clear Y-shaped connecting piece whose third arm has a catheter fitting connected to it. The two long tubing sections have color-coded pinch clamps for flow control (or arrest). At the tip on one length is also a plastic spike with cap, designed for insertion into a flushing media bag or bottle. The second long section has a standard end for connection to a flushing filter (Em-Con, Miniflush, Millipore, etc.). The entire tubing set is wrapped and sterilized. These tubing sets are designed as a disposable single-use unit. This original design was engineered for bovine flushing, but is used for bovine and equine, commonly. We have a newer 'Dual-Role' Y-junction tubing set design that addresses the higher-flow requests of equine embryo flushing and works equally well for bovine flushing as well. The 'Dual-Role' set uses a slightly larger inner diameter tubing, a Y-connection that allows for higher flow rates, and it lacks the step adapter between the Y-piece and catheter fitting. Works great for bovine and equine requirements! A third evolution of the Y-junction tubing set includes a luer-lock tip for connecting a luer-lock syringe on a 20 inch tubing line with flow clamp, in place of the 60-inch line with clamp and spike. We also carry plain media fluid bags with tube and clamp for those who prefer to prepare their own flush solutions. Included is a carry or hanging handle and 60-inch length of vinyl tubing with roller clamp for flow control. Available in 3000ml size.

- 704131 Long Foley Y-Junction Tubing Set w/Flow Valves - Gamma Irradiated (each)
- 704133 Long Foley Y-Junction Tubing Set w/Flow Valves, DUAL-Role - Gamma Irradiated (each)
- 704135 Long Foley Y-Junction Tubing Set w/Flow Valves, w/Luer-lock Tip - Sterilized (each)
- 704130 Fluid Bag w/clamp - 3000ml (each)
- 704139 Simplex Tubing w/clamp - 3000ml (each)
- 206517 Syringe (luer tip) to Catheter Step-Adapter (each)

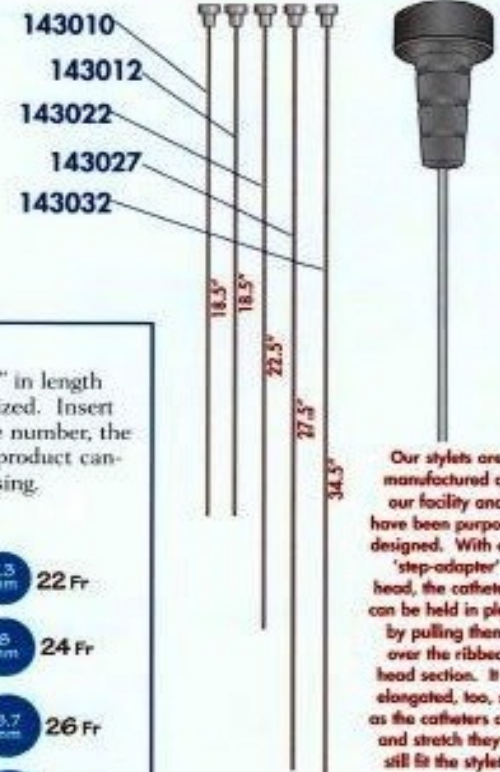
Using a catheter for large cows or for horses? The Dual-role Y-junction is a recommended option with its larger stepped adapter catheter fitting.

Looking for a different style of flush tubing set or a custom design to apply to your needs? Contact us!

EQUINE FLUSH TUBING & LAVAGE

Long vinyl tubing sets for equine uterine flushing/lavage and for connection to flushing catheters. The Single Line Equine Tubing Set (#134800) is a 48" length of vinyl tubing with spike for fluid bag on one end and a stepped adapter for fitting to a foley catheter on the other. A pinch-clamp controls flow rate. Gamma irradiated. The Uterine Flushing/Lavage Catheter (#134820) is a 60" vinyl tubing set designed for lavage/cavity washing of the vaginal or uterine area of a mare. This tubing set has a spike for flush bag on one end. The opposite end has 7 exit portholes along the final four inches of length (6 side ports, one on the tip). ETO sterilized. The Simplex™ Single Line Tubing Set (#704139) is a 60" high-flow tube with a flow control clamp and foley catheter stepped adapter. The opposite end has a vented bottle connection.

- 134800 Single Line Equine Tubing Set w/flow valve & spike [gamma irradiated] - 48" (each)
- 134820 Single Line Uterine Flushing/Lavage Catheter w/flow valve & spike [ETO strlzd.] - 60" (each)
- 704133 Long Foley 'Y' Junct. Tubing Set w/flow valve & Spike [Dual role, gamma irradiated] - 60" (each)
- 704139 Simplex™ Tubing Set, Single Line w/flow valve & bottle adapter [gamma irradiated] - 60" (each)



Our stylets are manufactured at our facility and have been purpose-designed. With our 'step-adapter' head, the catheters can be held in place by pulling them over the ribbed head section. It is elongated, too, so as the catheters age and stretch they'll still fit the stylet.

FOLEY CATHETERS

An industry standard. Manufactured of silicone-coated latex. These catheters are 17" in length and available with either a 5cc or 30cc inflation cuff. Individually wrapped and sterilized. Insert with the assistance of a stylet. Available in sizes of 10Fr through 28Fr. The larger the number, the larger the catheter's diameter. Sold individually or commonly by the box of 12. This product cannot be autoclaved to sterilize. Clean with isopropyl alcohol and distilled water if re-using.

- 121003 Foley Catheter - 17", size 10Fr x 3cc Balloon (each)
- 121205 Foley Catheter - 17", size 12Fr x 5cc Balloon (each)
- 121405 Foley Catheter - 17", size 14Fr x 5cc Balloon (each)
- 121430 Foley Catheter - 17", size 14Fr x 30cc Balloon (each)
- 121605 Foley Catheter - 17", size 16Fr x 5cc Balloon (each)
- 121630 Foley Catheter - 17", size 16Fr x 30cc Balloon (each)
- 121805 Foley Catheter - 17", size 18Fr x 5cc Balloon (each)
- 121830 Foley Catheter - 17", size 18Fr x 30cc Balloon (each)
- 122005 Foley Catheter - 17", size 20Fr x 5cc Balloon (each)
- 122030 Foley Catheter - 17", size 20Fr x 30cc Balloon (each)
- 122205 Foley Catheter - 17", size 22Fr x 5cc Balloon (each)
- 122230 Foley Catheter - 17", size 22Fr x 30cc Balloon (each)
- 122405 Foley Catheter - 17", size 24Fr x 5cc Balloon (each)
- 122430 Foley Catheter - 17", size 24Fr x 30cc Balloon (each)
- 122605 Foley Catheter - 17", size 26Fr x 5cc Balloon (each)
- 122630 Foley Catheter - 17", size 26Fr x 30cc Balloon (each)
- 122805 Foley Catheter - 17", size 28Fr x 5cc Balloon (each)
- 122830 Foley Catheter - 17", size 28Fr x 30cc Balloon (each)



Measurements refer to the outside diameter (shown here actual size)

STYLETS FOR CATHETERS

- 143010 Stylet for Small Diam. (12-16Fr) Catheters, Stainless w/ Knob-style Handle - 18.5" (each)
- 143012 Stylet for Large Diam. (18-28Fr) Catheters, Stainless w/ Knob-style Handle - 18.5" (each)
- 143022 Stylet for All-Silicone Catheters, Stainless Steel w/ Knob-style Handle - 22.5" (each)
- 143027 Stylet for All-Silicone & Latex Catheters, Stainless Steel w/ Knob-style Handle - 26.5" (each)
- 143032 Stylet for Long Silicone & Latex Equine Catheters - 34.5" (each)

FOLEY CATHETERS - ALL SILICONE

These all-silicone catheters are autoclavable and reusable. They're 22" in length and available with either a 5cc or 30cc inflation cuff. Individually wrapped and sterilized, the silicone catheters also feature a consistent symmetric balloon inflation. These catheters insert with the assistance of a stylet. Available in sizes of 16Fr through 22Fr. The larger the number, the larger the diameter of the catheter. We also carry a longer version (26") of these catheters - all with the 30cc balloon cuff. The 20Fr x 30cc 26 inch catheter is available in a 3-way design, with an extra luer-slip syringe port for infusing media or medication.

- 131605 Foley Catheter, All-Silicone 22", size 16Fr x 5cc Balloon (each)
- 131630 Foley Catheter, All-Silicone 22", size 16Fr x 30cc Balloon (each)
- 131805 Foley Catheter, All-Silicone 22", size 18Fr x 5cc Balloon (each)
- 131830 Foley Catheter, All-Silicone 22", size 18Fr x 30cc Balloon (each)
- 132005 Foley Catheter, All-Silicone 22", size 20Fr x 5cc Balloon (each)
- 132030 Foley Catheter, All-Silicone 22", size 20Fr x 30cc Balloon (each)
- 131626 Foley Catheter, All-Silicone 26", size 16Fr x 30cc Balloon (each)
- 131826 Foley Catheter, All-Silicone 26", size 18Fr x 30cc Balloon (each)
- 132026 Foley Catheter, All-Silicone 26", size 20Fr x 30cc Balloon (each)
- 132033 Foley Catheter, All-Silicone 26", 3-Way, size 20Fr x 30cc Balloon (each)
- 132205 Foley Catheter, All-Silicone 22", size 22Fr x 5cc Balloon (each)

1 Fr = 1/3mm
For larger equine-sized catheters, please see pg 61 in the EQUINE section of this catalog.



131630
The inflation cuff of all-silicone catheters expands symmetrically around the center of the catheter, keeping the tip with the exit ports in the middle of your target zone.

CERVICAL DILATORS

We offer two styles of stainless steel cervical dilators. Both are 46 cm (18") in length with a 6.3mm diameter. Head options can be seen in the image to the right. The #134110 makes this reduction via three 'step-downs' over the final 3 cm. The second option has an 'RPG' shaped end with ball tip (#19001/1000).

- 134110 Cervical Dilator, Stainless - 18" 19001/1000 Cervical Dilator, Stainless - 18" (each)



FOLEY CATHETERS / STYLETS / DILATORS



162141

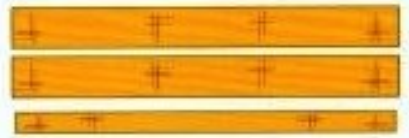


704013

704014

704016

704012



162140



13135/0120



071141

071131



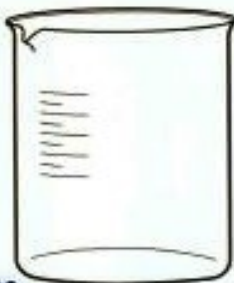
070443



701012



701013



701022

STERILIZATION TUBING

Clear plastic front, paper-backed sterilization tubing in 100 foot rolls. Most commonly used for autoclaving catheters or equipment for reuse. The backing has indicators that change color to identify sterilization via steam (autoclave) or exposure to ethylene oxide. The packaging in rolls allows versatility in being able to tailor the length to whatever you need packaged. Available in four convenient widths to fit most sterilization needs.

- 704012 Sterilization Tubing - 2" (each)
- 704013 Sterilization Tubing - 3" (each)
- 704014 Sterilization Tubing - 4" (each)
- 704016 Sterilization Tubing - 6" (each)

IMPULSE HEAT SEALER/SUPPLIES

We offer 8-inch or 4-inch element length impulse sealers. Perfect for individually wrapping supplies or packaging disposables. The 2 mm width flat element seal works very effectively on the sterilization tubing listed above. Adjustable settings for different thicknesses of plastics. Teflon strips covering the element prevent sticking. Simply press the lever bar down and the sealer activates. Plugs into any standard AC 110V wall outlet. The Sealer Service Kit includes (2) replacement flat elements, (2) replacement teflon cover strips, and (1) replacement teflon for under the element. The UltraSeal 21™ seals the tips of 1/4cc or 1/2cc straws by ultrasonic vibration, with virtually no heat transfer to the liquid contents of the straw.

- 162141 Impulse Heat Sealer w/Flat element - 8" (each)
- 162140 Impulse Heat Sealer 8" Service Kit (each)
- 162143 Impulse Heat Sealer w/Flat element - 4" (each)
- 13135/0120 UltraSeal 21™ Straw Sealer

FLUSH SOLUTION ADDITIVES

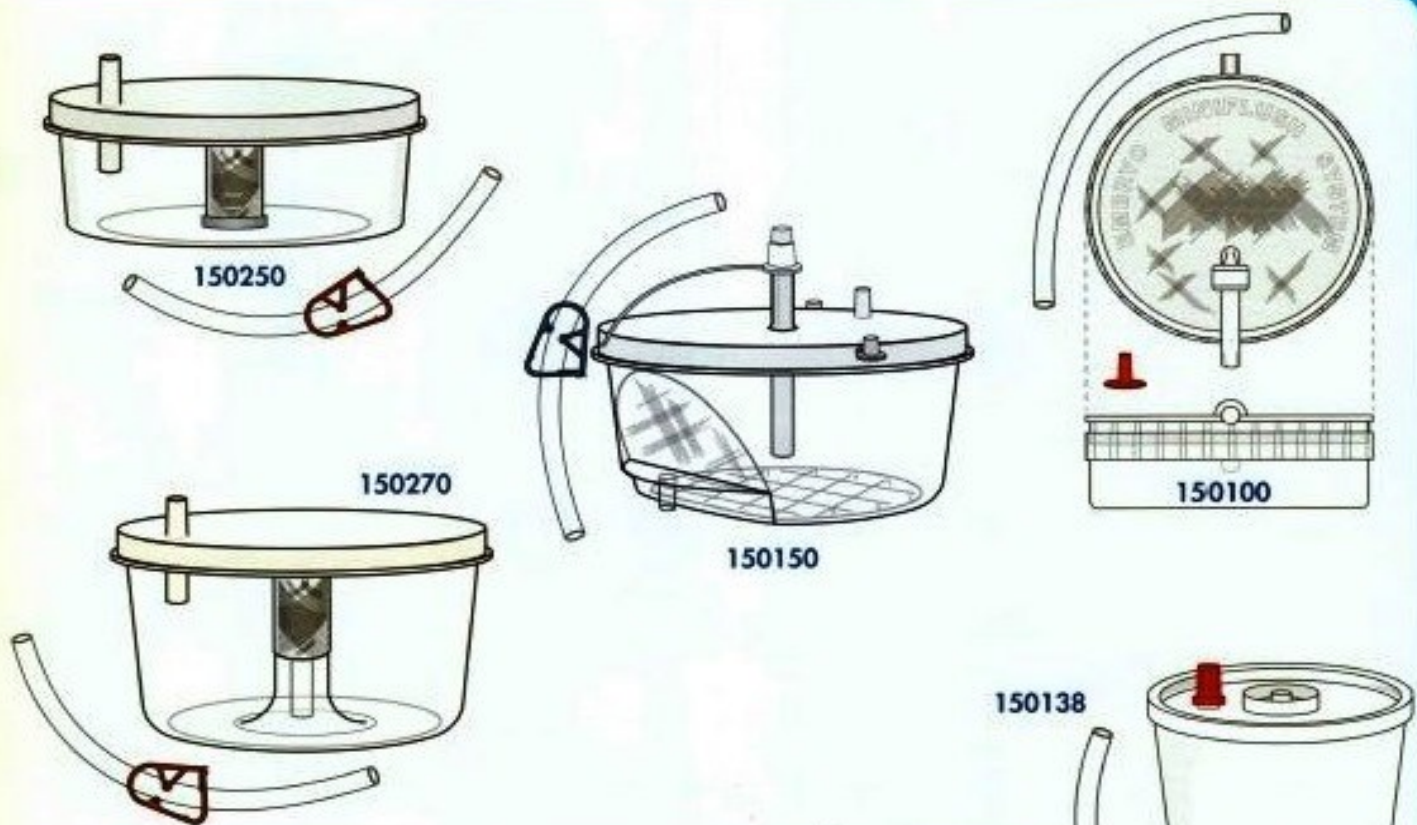
Embiotic III™ is a lyophilized newborn calf serum (10ml) with antibiotics and antimycotics. Contains 10,000 units/mL penicillin and 10,000 mcg/mL streptomycin. BSA Fraction Five powder is an additive that's rich in lipids and cofactors for tissue culture work, and is commonly added to plain flush medias as a surfactant.

- 070443 Embiotic III™ (10 mL vial)
- 071131 BSA Fraction V Powder (10 gm bottle)
- 071141 BSA Fraction V Powder (100 gm bottle)

BEAKERS, PITCHERS, TIMER

Some general support supplies, here. We carry glass beakers, plastic pitchers, and graduated cylinders. They're available in many sizes, so please inquire. The plastic pitchers have handles. All are graduated for ease in liquid measurements. Great for mixing preparation of liquids, solutions, and concentrates. Sometimes a portable timer can come in handy. We carry a small 59 minute battery-operated timer (mins/secs), useful for mixing extender, equilibrating solutions, freeze and thaw timing, etc.

- 701021 Beaker, 1 Liter Glass (each)
- 701022 Beaker, 2 Liter Glass (each)
- 701012 Beaker, 2000 mL Plastic (each)
- 701013 Beaker, 3000 mL Plastic (each)
- 701015 Beaker, 5 Liter Plastic (each)
- 701036 Graduated Cylinder, 1000 mL Glass (each)
- 706059 Timer, 59 minute battery-operated portable (each)



EMBRYO FLUSHING FILTERS

The most popular styles and brands. These filters are designed to connect to flush tubing sets for the recovery of embryos, allowing the media to flow through. All include a short PVC tubing piece and some also include a pinch clamp to control flow. All varieties are individually wrapped and sterilized.

For 'dish-style' filters, we offer the popular Miniflush™ Filter. This embryo filter has ports on either side of a search dish-shaped filter, allowing the filter to become a searching vessel after the flush. Complete instructions are included with each Miniflush™ filter.

The Sureflush™ Filter is a 'cup-style' filter with the filter screen across the base. Includes a vented cap and 5' exit tube with clamp. 150cc total volume.

The Safe-Way™ Filter is a 'cup-style' filter with a gridded base for searching purposes. The filter runs at an angle along one side, making it easy to both rinse embryos off into the base grid area and pour off excess media through the exit port.

The Em-Con™ line of filters are all 'cup-style'. All Em-Con™ filters include a pinch clamp. These filters have an inlet port built into the lid for the flush tubing attachment and an outlet port from the base. Em-Con™ filters are available in three varieties: The standard Em-Con™, the High Volume Em-Con™ and the Low Volume Em-Con™. The standard Em-Con™ has the embryo filter screen across the base of the filter, allowing all media to pass through. It is the only filter on this list with a stainless steel filter screen. The high and low volume versions have a central filter column through the center of the cup and allow for a reservoir of media to remain in the contoured base for searching.

The High Volume Filter maintains approximately 120cc's of media, the Low Volume Filter maintains approximately 50cc's of media. The filter has a 75 micron mesh.

- 150100 Filter, Miniflush™ (each)
- 150138 Filter, Sureflush™ (each)
- 150150 Filter, Safe-Way™ (each)
- 150152 Filter, Oocyte Aspiration w/2mm Connector (each)
- 150200 Filter, Em-Con™ (each)
- 150250 Filter, Em-Con™ - Low Volume (each)
- 150270 Filter, Em-Con™ - High Volume (each)

Don't forget syringes for rinsing off filters! Check out Page 17 for a complete list.

Looking to rinse off the filter screen for possible clinging embryos without having to deal with the froth, or bubbles that can occur due to the buffers in ViGro® Complete Flush? ViGro® 1 Liter Rinse Media (#624100, page 28 is the solution (literally). Load a 30-50cc syringe with the rinse media following the flush with Complete Flush™ and you can rinse the filter down without the bubbles that can hide embryos. Peace of mind.





120007



701251



701135



701145



701120



701121

120008



701212



701201

The Embryo Handling Tips, General Purpose Tips and Yellow and Blue pipette tips shown here are displayed at actual size. Most are available in dispensing racks of 96 tips (or 204 per rack for General Purpose tips), or packaged bulk in a ziplock bag of 1,000 pcs.

See the descriptions at right for item numbers and volumes.



347306

PIPETTE TIPS - ASSORTED

Embryo Handling Tips have a volume range of 0.1 - 10 μ L and are designed for use with pipettors of up to 10 μ L. Primarily used for the moving of embryos, they are packaged 96 per dispenser rack, sterilized. Embryo Handling Tips are considered one of the 'shorter' variety tip. In the same category and volume are the Eppendorf[®] Tips. These are packaged in a box with (2) 500-per-pack bags within (medically clean, non-sterile). Next we have the General Purpose Tips. The General Purpose tips have a volume range of 2 - 200 μ L and are approximately 2.5 inches in length. These are packaged in either 204 pieces per dispenser rack or in bulk bags of 1,000 pieces. Our Clear Disposable Pipette Tip fits most standard pipettors. It has a 0 - 200 μ L capacity. It's clear with a slight yellow tint to the plastic, and available in either a dispensing rack of 96 tips or in bulk bags of 1,000 pieces. Our Blue Disposable Pipette Tip takes over where the yellow left off with a capacity of 200 μ L - 1 ml. These are clear with a blue tint and also available in either a dispensing rack of 96 pieces or in bulk bags of 1,000.

Also found in the pipette tip category are our In Vitro Fertilization (IVF) catheters and Tom Cat Catheters. Both fit standard luer-slip syringes. The IVF catheters are 3.5 inches in length and available in either medically clean (but not sterilized) packages of 50 or sterilized in packages of 10 pieces. Tom Cat catheters are 4.5 inches long and come individually wrapped and sterilized in boxes of 50 pieces. The extra inch in length over IVF catheters proves handy to many. The glass Pasteur[®] Pipette tubes are 5-3/4" in length.

- 701212 Embryo Handling Tips, Sterilized - 0.1 - 10 μ L (96/rack)
- 701201 Eppendorf[®] Tips - 0.1 - 10 μ L (1 box contains [2] pks 500/bag)
- 701210 Embryo Handling Tips, Sterilized - 0.1 - 10 μ L (1000/bag)
- 701251 General Purpose Tips - 2 - 200 μ L (204/rack)
- 701252 General Purpose Tips - 2 - 200 μ L (1,000/bag)
- 701135 Disposable Pipette Tips, Clear - 0 - 200 μ L (96/rack)
- 701136 Disposable Pipette Tips, Clear - 0 - 200 μ L (1,000/bag)
- 701145 Disposable Pipette Tips, Blue - 200 μ L - 1ml (96/rack)
- 701146 Disposable Pipette Tips, Blue - 200 μ L - 1ml (1,000/bag)
- 120006 In Vitro Fertilization (IVF) Catheters, Sterilized - 3.5" (10/pk)
- 120007 In Vitro Fertilization (IVF) Catheters - 3.5" (50/pk)
- 120008 Tom Cat Catheters, Open-end, Sterilized - 4.5" (50/pk)
- 701120 Pasteur Glass Pipette - 5-3/4" (250/box)
- 701130 Drummond Pipettes (Replacement Bores) - 1.5 μ L (100/pk)
- 701131 Drummond Pipettes (Replacement Bores) - 10 μ L (100/pk)

BLOOD TUBES

We carry an assortment of blood vial / liquid specimen vials. Volume options from 3ml to 10ml, these are used for transporting samples of blood. The 'no additive' vials can also be used for transport of other liquids or medias.

- 701222 Blood Vial, White Cap, No Additive - 6ml (100/rack)
- 347306 Blood Vial, Red Cap - 3ml (100/rack)
- 701228 Blood Vial, Red Cap - 10ml (100/rack)



702030



702012

702015



702016



702050



702019



702005



702014

702017



702006



702013

702008

PIPETTORS

We carry several types of pipettors for a wide range of applications – from embryo manipulation to sperm analysis to media transfer. Both fixed and adjustable versions are available. In fixed pipettors, we have options for 10µL, 20µL and 80µL (Labpette™ FX line), 100µL with tip ejector (Biohit Proline®), a standard 1ml fixed, and a series of inexpensive mini pipettors in multiple volumes. In adjustable volume pipettors we have the Volac™ Ultra Digital high precision pipettor with tip ejector and recalibration ability handles volumes of 5 - 50µL. The 20 - 200µL adjustable pipettor we carry is also a Biohit Proline® model (similar to the fixed model) with dial digital adjustment and tip ejector. The TriContinent™ model is a 200µL - 1mL pipettor with auto tip ejection. One of the most versatile and precision instruments is the Hamilton Syringe Pipette Controller. Manufactured of machined stainless steel with a graduated glass outer barrel, the controller allows for miniscule control via a plunger with thumbscrew dial. If you're looking for a great pipette controller for loading/manipulation embryos or vitrification work, try the Micro Classic™. This manual thumb-control device offers precision control for filling 1/2cc or 1/4cc straws (with or without the wick-and-powder plug), unopette tips, IVF or TomCat catheters, etc.

- 702003 Pipettor, Fixed - 10µL Labpette™ FX (each)
- 702012 Pipettor, Fixed - 20µL VWR™ Economy Series (each)
- 702014 Pipettor, Fixed - 100µL Biohit Proline® (each)
- 702019 Pipettor, Fixed - 80µL Labpette™ FX (each)
- 702009 Pipettor, Fixed - 1mL TriContinent™ Stat-Pet (each)
- 702016 Pipettor, Adjustable 5 - 50µL Volac™ Ultra (each)
- 702010 Pipettor, Adjustable 20 - 200µL Biohit Proline® (each)
- 702020 Pipettor, Adjustable 200µL - 1mL TriContinent™ (each)
- 702050 Hamilton™ Syringe Pipette Controller - < 5mL (each)
- 702030 Micro Classic™ Pipette Controller (each)
- 702035 Replacement Tubing Sets for Micro Classic™ Controller (3/pk)
- 702005 Mini Pipettor, Fixed - 5µL (each)
- 702006 Mini Pipettor, Fixed - 10µL (each)
- 702013 Mini Pipettor, Fixed - 25µL (each)
- 702008 Mini Pipettor, Fixed - 50µL (each)
- 702017 Mini Pipettor, Fixed - 100µL (each)

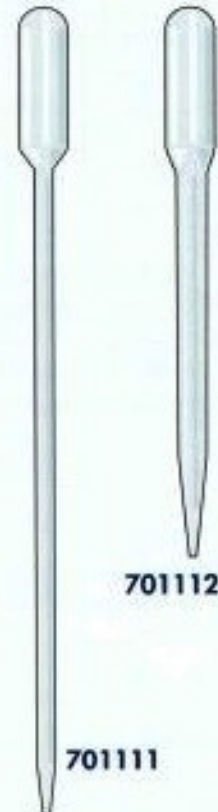
Careful and deliberate pipetting techniques can greatly reduce margins of error.
Care + Patience = Precision

If you have additional needs that you don't see here, CALL US!
(800) 331-0195

DISPOSABLE TRANSFER PIPETTES

Our Disposable Transfer Pipettes are molded plastic liquid transfer tubes with a bulb end. They're great for moving/transferring semen samples or non-sterile media. Approximately 6ml capacity in the 9" version (*701111), approximately 4ml capacity in the 6" version (*701112). The 9" pipette is also commonly modified in our industry to be used as a syringe extension by cutting the pinch-bulb portion off. The interior diameter of the tube section fits nicely onto most luer-tip syringes, giving the user an extension. This is handy for drawing samples into a syringe from a collection bottle or cone or for moving small samples to a slide for analysis. Note the 6" transfer pipette has a larger diameter shaft and will NOT fit a luer syringe.

- 701111 Disposable Transfer Pipette - 9" (500/box)
- 701112 Disposable Transfer Pipette - 6" (500/box)



701112

701111



624014



624015



624100



624024



624224



624228



THAT'S COOL!

ViGro™ Holding Plus, Ethylene Glycol, Freeze Plus, One-Step Thaw and Thaw Plus 1-2-3 kits must ship refrigerated/cooled. While not as delicate as milk or various other refrigerated liquids, it is best to not attempt to ship ViGro™ medias in durations longer than two consecutive days. Please plan accordingly if possible when ordering. Orders taken on Thursdays or Fridays for cooled medias need to either ship as a 1-day shipment (for Friday or Saturday delivery) or we will hold off and ship the following Monday.

Additionally, refrigerated media shipments require extra packaging for thermal protection, including insulated boxes and gel or phenolic freeze packs. Depending on the size/volume of the shipment, there will be a \$5-\$12 packaging fee added to the shipment cost.

ViGro™ COMPLETE FLUSHING & RINSING SOLUTIONS

ViGro™ Complete Flush solutions and medias from Vetoquinol®. Years of development experience has produced medias that perform consistently. The Complete Flush solution is just that – complete. It is ready-to-use with no additives necessary (surfactant and antibiotics are already part of the solution along with HEPES buffering). The solution may be stored at room temperature or refrigerated. Packaged in durable EVA bags with three built-in ports (one for filling, one for spikes, and a needle septum port). ViGro™ Rinsing Solution is the same formula as the Complete Flush solution, except that it does not contain any surfactant. Due to the tendency of surfactants to foam when agitated, Rinsing Solution is designed for washing (rinsing) embryo collection filters at the end of the collection. If media containing surfactants are used for filter washing, embryo searching may prove difficult until the bubbles clear. Rinsing is most commonly achieved via syringe. Simply spray across the filter surface over a clean searching dish.

- | | | |
|--------|-----------------------------------------------------|-----------|
| 624014 | ViGro™ Complete Flush Solution - 1 Liter Bag (each) | [10/case] |
| 624015 | ViGro™ Complete Flush Solution - 2 Liter Bag (each) | [6/case] |
| 624100 | ViGro™ Embryo Rinsing Solution - 1 Liter Bag (each) | [10/case] |

ViGro™ HOLDING, FREEZING & THAWING MEDIAS

For embryo holding, freezing, thawing we also offer a wide range of ViGro™ medias. The Holding Plus is designed to support optimal embryo survival in air at room temperature for up to 9 hours (or up to 20 hours at 4°C) by providing essential amino acids, growth factors, enzymes, energy substrates and antibiotics. Embryos can also be transferred using a straw containing Holding Plus. Available individually in 50ml or 20ml EVA mini bags or alternately in 8ml twist-off-top vials, 6 per box. For freezing embryos, look to ViGro™ Ethylene Glycol Freeze Plus media for direct transfer embryos (bovine, ovine and caprine). Since ethylene glycol moves across cell membranes more readily than glycerol, embryos can be transferred directly into recipients without removing the embryo from the straw, eliminating time-consuming rehydration steps. These medias contain 1.5M ethylene glycol and 0.4% BSA and 0.1M sucrose. For a glycerol freezing solution, ViGro™ Freeze Plus is the way to go. Designed for bovine, ovine and caprine embryos, it is a complete glycerol freezing solution packaged for immediate use. It is a DMPBS-based solution containing 10% cell culture grade glycerol, 0.4% BSA and 0.1M sucrose. ViGro™ One-Step Thaw Plus is a 1M sucrose solution for the rapid one-step rehydration of cryopreserved embryos. ViGro™ Thaw Plus 1,2,3 is a three-step thawing media kit for the gradual rehydration of glycerol-frozen embryos. Following thawing, embryos should be sequentially immersed for five minutes in Thaw 1, Thaw 2 and Thaw 3, and then transferred to a suitable holding medium (ViGro™ Holding Plus).

- | | |
|--------|--------------------------------------------------------------------------------|
| 624024 | ViGro™ Holding Plus - 50ml mini-bag (each) |
| 624032 | ViGro™ Freeze Plus [With 10% Glycerol] - 50ml mini-bag (each) |
| 624034 | ViGro™ Ethylene Glycol Freeze Plus [WITH 0.1M Sucrose] - 50ml mini-bag (each) |
| 624224 | ViGro™ Holding Plus - 20ml mini-bag (each) |
| 624228 | ViGro™ Holding Plus - 8ml vials (6 per box) |
| 624832 | ViGro™ Freeze Plus [With 10% Glycerol] - 8ml vials (6 per box) |
| 624234 | ViGro™ Ethylene Glycol Freeze Plus [WITH 0.1M Sucrose] - 20ml mini-bag (each) |
| 624834 | ViGro™ Ethylene Glycol Freeze Plus [WITH 0.1M Sucrose] - 8ml vials (6 per box) |
| 624247 | ViGro™ One-Step Thaw Plus - 8ml vials (6 per pack) |
| 624248 | ViGro™ Thaw Plus Kit 1-2-3 - 8ml vials [(2) 3-step thaw kits per box] |



624034



624834



624234

The 8oz tubes of ViGro™ media have convenient twist-off tops. These tubes, designed for single-use application, reduce the risk of contamination.



624847



625834



625024



624848



626100

SYNGRO™ MEDIA

Syngro™ Holding Media represents an advancement in technology eliminating the need for refrigeration. Syngro™ Holding Media is designed to support optimal embryo survival in air at room temperature for up to 20 hours by providing essential amino acids, growth factors, enzymes, energy substrates and antibiotics. Embryos can also be transferred using a straw containing Syngro™ Holding Media. Removing the requirement for refrigeration results in lowered shipping costs for both packaging and time-in-transit issues and can also make storage and maintenance easier. Ethylene Glycol Freeze Media is also available as part of the SynGro™ non-refrigerated media line.

- 625024 Syngro™ Holding Media - 50ml mini-bag (each)
- 625824 Syngro™ Holding Media - 8ml vial (6 per pack)
- 625834 Syngro™ Ethylene Glycol Freeze Media - 8ml vial (6 per pack)

**NO REFRIGERATION REQUIRED FOR SHIPPING
OR STORAGE OF SYNGRO™ MEDIAS**
(Sometimes it's cool to be uncool.)

EMCARE™ HOLDING, FREEZING & THAWING MEDIAS

EmCare™ Sucrose Thawing solution is a 6ml minipac system for thawing embryos. 1M formulation. A ready-to-use media.

EmCare™ CSU Embryo Thawing Kit solutions are a 4-step minipac system for thawing embryos. Each minipac is 6ml. Step #1 is a 6% v/v glycerol + 10.3% w/v sucrose in EmCare™. Step #2 is a 3.3% v/v glycerol + 10.3% w/v sucrose in EmCare™. Step #3 is a 10.3% w/v sucrose in EmCare™. Step #4 is Embryo Holding solution in EmCare™.

- 626038 EmCare™ Sucrose Thawing Solution - 6ml (20/box)
- 626250 EmCare™ CSU Thawing Kit, 4-part - 6ml (4 kits/box)
- 626020 EmCare™ Albumin Solution, 20% - 20ml (5/box)

If you ever have the need to send temperature-sensitive shipments from your facility to another – we have the disposable supplies to suit your needs!
See Pages 50-51 for details or call our office.

For a handy reference chart to help you determine standard time-in-transit for shipments from our location to where you are (or where you need your shipment to be), check out page 62 for color-coded maps.



023040
Temperature Range:
 30° - 40°C
 (85° - 104°F)



162051

Temperature Range:
 27° - 40°C
 (80° - 104°F)



023023



989060



162060

POWERED THAW UNITS

Warm water thawing units for cryopreserved semen or embryos in straws or vials. The RR Digital Thaw Unit (023023) is a brushed stainless design with screw-on cap and retriever basket. Temperature range of 27°-40°C (80°-104°F). Display listed in °C. Easy pushbutton arrows to adjust the temperature. Available in 110V A/C or 12V D/C (023022). No breakable glass liner. The CITO™ brand Dual Digital Thaw Unit has a digital display and is preset to 96.5°F. Temperature range is from 85°F-104°F (30°-104°C). Display listed in °F. Adjustment is made via removal of the base plate and adjusting the rheostat within. Comes complete with both 110V A/C and 12V D/C cords and transformer cord. None of these units have the capacity to cool water, so it is important to start with cool water and bring it up to temperature. Keep this in mind in outdoor temperatures exceeding 96°F that replacement of water may be required if using these units over a long period of time. Optional power inverter is available for the 12V D/C RR Digital Thaw Unit (989060) for plugging it into a standard A/C wall outlet. The adapter permits a smooth transition from lab to vehicle. The Thaw Monitor is a triple-laminated unbreakable flat plastic temperature card, indicating temp zones via highlighted LCD from 90°F-104°F, designed to fit into all thaw units. Reproduction Resources, Inc. would always endorse using a secondary thermometer with any type or brand thaw unit to ensure temperature accuracy when thawing.

- 023023 RR Digital Thaw Unit 110V A/C (each)
- 023022 RR Digital Thaw Unit 12V D/C (each)
- 023040 CITO™ Dual Digital Thaw Unit - 110V A/C & 12V D/C (each)
- 023015 CITO™ Thaw Monitor w/Shaded Zones - °F (each)
- 989060 AC Adapter unit for CITO™ 12v DC Thaw Unit (each)
- 023017 Glass Replacement Liner for Thaw Units and Thermos (each)

We also carry the RR Digital Thaw Unit in a 220V version for international clients. Part #023024

THERMOS® THAW UNITS / NON-POWERED

The Thermos w/Thermometer & Retriever is a hybrid version of a standard one-liter glass-lined Thermos® unit with an added fitted, slotted retriever basket with handle for easy handling of samples. These are a wide-mouth variety unit, with an opening that is of the same diameter as the body of the unit. We also have a plain wide mouth Thermos® for general applications.

- 162051 Thermos®, Glass Liner - 1 pint (each)
- 162060 Thermos®, Glass Liner with Retriever & Thermometer [°F & °C] - 1 pint (each)

A.I. KIT BOXES

These kit boxes are for the convenient transport of A.I. supplies. The popular Cito™ A.I. Kit Case is made of blue plastic. It has a handled lid with sheath drawer built into the side as well as compartments for a thaw unit and accessories, such as straw cutters, tweezers, lube, etc. Double latch closure. Dimensions (inner): 17.5"W x 8.5"D x 9"H. Kit supplies not included.

- 023010 CITO™ A.I. Kit Case - Large Plastic (each)

SHEATH/TUBE HOLDER

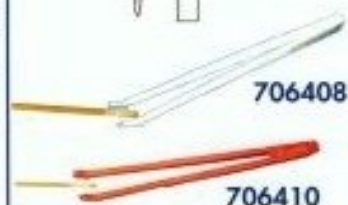
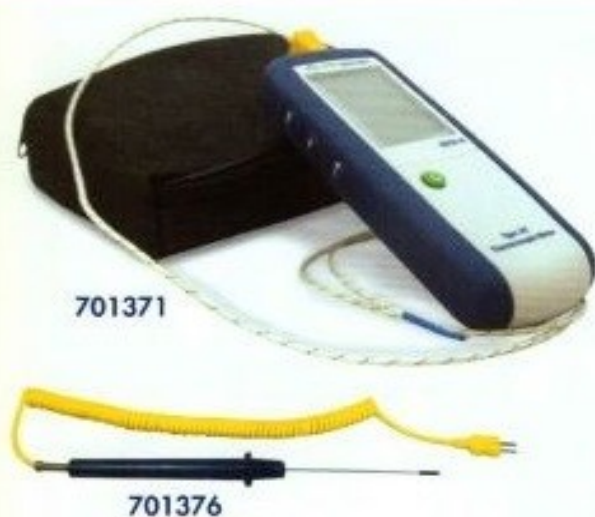
We offer a couple of varieties of rigid sheath or tube holders. The first is a 1.75" diameter aluminum tube with end caps, designed for sheaths or tubes up to 18" in length. The second variety is constructed of clear plastic with end caps and is available in a 2" diameter in a 23" length. A convenient method for carrying sheaths and tubes.

- 706120 Sheath/Tube Holder, 1.75" Diameter, Aluminum - 18" (each)
- 706128 Sheath/Tube Holder, 2" Diameter, Clear plastic - 23" (each)



706128

706120



THERMOMETERS & THERMOCOUPLE SUPPLIES

What kind of thermometer do you prefer? We have a wide variety, from glass lab to instant digital thermocouple devices. The Glass Laboratory Thermometer (996703) is a 12" length with traditional liquid-level measuring, with graduations from 0°F (-18°C) to 220°F (104°C). We offer several varieties of round dial probe-style thermometers. The standard Round Dial versions - 996724 measures temperatures in Celsius (-10°-100°), 996726 measures temperatures in Fahrenheit (-15°-212°), both with a 5" stainless steel probe. The shaded-zone round dial version measures temperatures in °F only with a range of 0° to 220° and also has a green shaded background in the area behind temperatures of 91° to 97° (a common water bath target range). It also has a 5" stainless steel probe. The third version measures temperatures in °F and °C with a range of 0° to 220°F (-18° to 104°C) with an 8" Stainless Steel Blunt-tip probe (500557). The longer length and blunt tip are popular features for those using the thermometer to monitor A.V. water temperatures safely and accurately.

In powered/digital thermometers, we carry a digital 8" Stainless Steel Probe-style Thermometer (996710) that measures temperatures to within one-tenth of a degree (°F and °C) with a range of -58° to 302°F (-50° to 150°C). Button-style battery is replaceable. For higher-end function, the Digital Thermocouple (701371) is an excellent option. This 'K'-style plug thermocouple measures temperatures instantly and accurately via digital readout (-250° - 1,372°C / -418° - 2,501°F). The temperature sensing device plugs into the base unit, allowing multiple options as the sensor unit - from rigid, hand-held insulated probes to flexible wire-lead sensors. A popular option this avails is the taping of wire-lead sensors into place in polystyrene shippers, storage devices, etc. and simply plugging them into the main unit to measure temperatures without opening up the units. We offer three types of 'K' connection probes to use in conjunction with the thermocouple, but any 'K' connection probe will work in the base unit. A wire-style probe is included with the device.

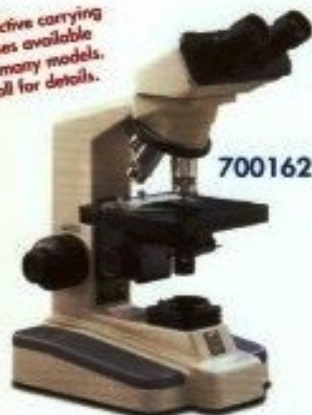
- 996703 Glass Lab Thermometer, 12" - °F & °C (each)
- 996724 Round Dial Stainless 5" Probe Thermometer - °C (each)
- 996726 Round Dial Stainless 5" Probe Thermometer - °F (each)
- 996740 Round Dial Stainless 5" Probe Thermometer w/Shaded Zone - °F (each)
- 500557 Round Dial Stainless 8" Blunt-Tip Probe Thermometer - °F & °C (each)
- 996710 Digital 8" Probe Thermometer - °F & °C (each)
- 701370 Digital Thermocouple, Type 'K' [without probe] - °F & °C (each)
- 701373 Thermocouple Probe, Type 'K' Wire Lead-style - 36 inches (each)
- 701375 Thermocouple Probe, Type 'K' Rigid Hand-held 5" (each)
- 701376 Thermocouple Probe, Type 'K' Rigid Hand-held 4" Fine Rod (each)

STRAW CUTTERS, TWEEZERS, SCISSORS, ACCESSORIES

The handy little things every kit box should have in it. The Cito® Straw Cutter is a convenient device for snipping the tips of straws open cleanly and to the perfect length. Thumb-button operation and an interior stainless blade ensure safe operation. The MiniCutter™ straw cutter has separate slots for 1/4cc or 1/2cc straws. Straw tweezers are designed for the practical handling of freezing straws or transfer straws in that they have notched tips designed specifically for holding straws. Plastic available in 1/2cc straw or 1/4cc straw models. For more durable tweezers, the 12" long or 6" long stainless steel models are also available and can accommodate either 1/2cc or 1/4cc straws (slotted).

- 325109 Cito® Straw Cutter (each)
- 17062/0010 MiniCutter™ Straw Cutter (each)
- 706406 Slip-N-Snip™ Scissors (each)
- 706408 Cito® Straw Tweezers, Plastic - 1/2cc (each)
- 706410 Cito® Straw Tweezers, Plastic - 1/4cc (each)
- 706411 Stainless Steel 6" Straw Tweezers - 1/2cc & 1/4cc (each)
- 706412 Stainless Steel 12" Straw Tweezers - 1/2cc & 1/4cc (each)

Protective carrying cases available for many models. Call for details.



700162

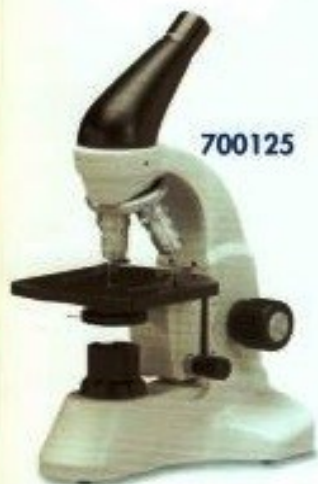


12010/2000

The perforated foam interior of the Pelican™ transport case allows a great deal of modification to fit a wide variety of delicate equipment.



700400



700125



700265



700305



The adjustable halogen stage light can alternately be used as an upper mount illumination source.

MICROSCOPES

Reproduction Resources carries a variety of microscopes and stereoscopes to fit the needs of the A.I. and E.T. industries. Whether examining semen or embryos or for use as instruction, we have a scope that should fit your needs. We have monocular and binocular scopes to choose from, and both standard A/C and cordless, portable varieties. One of the newer, versatile simple scopes is the National® Model 125MS Cordless Monocular scope. Using bright white LED lighting, this microscope has illumination comparable to a 20W tungsten bulb. The advantages include cord-free operation, allowing use independent of an A/C outlet. Portability and long-lasting power – an eight hour charge results in 40-50 hours of use. The LED light source outlasts even the best incandescent bulb with a lifetime of over 10,000 hours. Recharge the included (3) AA batteries over 1,000 times. 45° inclined head with 360° rotation includes 10x widefield eyepiece with 4x, 10x and 40x objectives and mechanical stage for fine adjustment of the slide positioning. The National® Model 162 or 164 (Phase Contrast) Binocular has a 30° inclined binocular head with dual diopters and an interpupillary adjustment from 54mm-76mm. Widefield 10x eyepieces, pointer standard in one eyepiece, with rubber eyepiece cups. The head can be rotated 360° for reverse position viewing. Quad objective turret is ball-bearing mounted for smooth, precise positioning of objectives, mounted in reverse to facilitate ease in changing slides. The objective lenses are standard achromatic 4x, 10x, 40x, and 100x (oil immersion). Large stage (140mm wide by 135mm deep surface). Mechanical specimen holder with low-position coaxial controls. 70mm x 50mm movement with 0.1mm graduations. Condenser specs: 1.25 NA Abbe condenser has rack-and-pinion focusing, iris diaphragm and swing-out filter holder with clear blue, green and yellow filters supplied. Focusing: Coaxial coarse and fine; coarse has tension adjustment, fine is graduated. Illumination is via 12V 20W halogen with variable rheostat control, illuminated on/off switch, 3-wire grounded cord and plug with time delay fuse. Includes instructions and vinyl dustcover, with the addition of a phase contrast condenser and objectives which provides increased specimen contrast. The objectives have magnifications of 10x, 20x, 40x and 100x (oil immersion). The MBL 2000™ phase contrast scope also includes a built-in heated stage.

- 700125 National® 125 Cordless Monoc. Microscope w/4x-10x-40x object., Mech. Stage
 700162 National® 162 Binoc. Scope w/10x-20x-40x-100x object., Mech. Stage
 700164 National® 164 Binoc. Scope (Phase) w/10x-20x-40x-100x object., Mech. Stage
 12010/2000 MTL® MBL 2000™ Binoc. Scope (Phase), heated stage w/10x-4x0-100x object., Mech. Stage

STEREOSCOPES

We have stereoscopes to make your embryo work possible, too. The National® Model stereoscopes are available with either 10x, 15x or 20x eyepieces to go along with the 1x-4.5x zoom range. Great for searching for embryos – and with the 20x eyepieces, for grading embryos. It sports a 45° inclined head that will rotate 360° and has a zoom range of 0.65x - 4.5x. Interpupillary adjustment from 55mm - 75mm for comfortable viewing by any user. Includes (2) 10x super widefield eyepieces with guards (2) 15x widefield eyepieces with guards, or (2) 20x widefield eyepieces with guards. Total magnification: with 10x eyepieces, 6.5x-45x with 20x eyepieces, 13x-90x. The Trans-Illuminator™ stand with mirrored base prevents excessive heating of the stage by the light source. 6V/20 watt halogen illumination and a working distance of 100mm.

- 700265 National® Stereoscope [20x Eyepieces] w/1x-3x Zoom Range* (each)
 700305 National® Stereoscope [10x 15x or 20x Eyepieces] w/0.65x to 4.5x Zoom Range (each)

PROTECTIVE CASES (PELICAN®)

When you need durable, reliable protection for your delicate and valuable equipment such as microscopes, sperm counters, etc. – Pelican® cases are the answer. Rugged waterproof construction with multiple latches (with holes to accept locks), retractable handles and wheeled bases, the inner perforated foam core insert can be customized to form fit any equipment. For an extra fee, we will prepare the case to fit your particular equipment.

- 700400 Pelican® Transport Case [ID 21.5" x 16.4" x 12.5"] w/Handle & Wheels (each)
 700403 Pelican® Transport Case [ID 21.5" x 16.7" x 10.6"] w/Handle & Wheels (each)



700833



700725



701320

DID YOU KNOW...

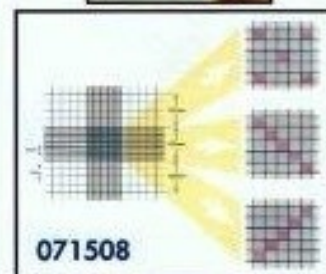
If you need to centrifuge 15ml tubes and don't have a specific 15ml rotor, you can load 50ml centrifuge tubes into the rotor and place the 15ml tubes within the 50ml tubes. It isn't a snug fit, but it's functional.

ReproPette™ Dilution Systems

701270



Includes supplies for preparing 48 tests
Pipettor • Tips • Solution • Kim wipes



071508

COUNT ON IT!
Our ReproPette™ Dilution Prep
Kits include proper counting
techniques with a hemacytometer.

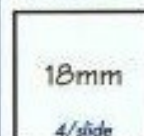
3" x 1"

700602



700612

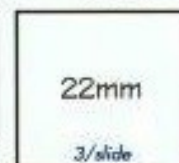
700618



18mm

4/slide

700622



22mm

3/slide

(actual size)

SLIDE & STAGE WARMERS, CENTRIFUGES

The Premiere™ Slide & Dish Warmer has a large anodized slide-warming platform (7.5" x 10"), with digital readout and push-button controls. Consistent warming across the entire surface, this unit is great for slides or for maintaining media temperatures in embryo transfer duties. The Hermle™ Z-206 Centrifuge is a digital readout multi-setting spinner for general laboratory, clinical and research applications. Simple controls make it easy to operate, with adjustable spin rate ranging from 200rpm to 6,000rpm. Fixed rotor options to accommodate 50ml or 15ml centrifuge tubes (specify the rotor(s) requested when ordering). Timed options from 10 seconds to 100 hours (or continuous). Automatic imbalance sensor.

- 700725 Premiere™ Slide/Dish Warmer, 7.5" x 10" anodized surface (each)
700833 Centrifuge, Hermle™ Z-206 6-place Fixed Rotor - 50ml Tubes (each)
700834 Centrifuge, Hermle™ Z-206 6-place Fixed Rotor - 15ml Tubes (each)

SLIDES, SLIP COVERS, HEMACYTOMETER SUPPLIES

Microscope slides are available precleaned in quantities of 72 per box. We also offer a caffeine-coated slide with a fine caffeine film across the entire surface which hyperactivates sperm cells to accentuate movements. The coverslips are #1 quality and available in either 18mm or 22mm square size. 18mm coverslips are packaged 100 per pack. 22mm coverslips are packaged 200/pk. We carry hemacytometers and their specialized coverslips as well. The hemacytometer is a specialized, gridded microscope slide used for counting cells in a given sample. Washable and reusable (distilled water and a Kim Wipe™ [*701377] work well for cleaning). For additional lab cleaning supplies, see pages 34-35. The Live/Dead Stain is a commonly used liquid stain packaged in a 1ml ampule for the evaluation of live or dead sperm cells. The dead sperm cells will be instantly stained when viewed by microscope (note: checking must be done immediately after stain is added!).

- 700602 Microscope Slides, Plain, Precleaned (72/box)
700612 Microscope Slides, Caffeine-coated (72/box)
700618 Coverslips, No. 1 - 18mm (100/pk)
700622 Coverslips, No. 1 - 22mm (200/pk)
071506 Hemacytometer Coverslips (10/pk)
071508 Hemacytometer - Includes (1) 10/pk of Coverslips (each)
701320 Live/Dead Stain - Purple - 20ml (each)

REPROPETTE™ COUNTING SYSTEM

We developed the ReproPette™ Counting System shortly after the Unopette® Systems were discontinued, but the demand was still there for a reliable preparation system for performing manual counts with slides/hemacytometer. Complete kit with instructions for ReproPette™ and proper counting technique for the improved Neubauer™ Hemacytometer.

- 701270 ReproPette Counting System - 1:101 Dilution (48 tests - pipettor, tips, solution, wipes)
701275 ReproPette Counting System - 1:201 Dilution (48 tests - pipettor, tips, solution, wipes)
701272 ReproPette Counting System - 1:101 Solution Only (48 tests)
701277 ReproPette Counting System - 1:201 Solution Only (48 tests)



997564



997716



997416



125010



997565



997516



703464



703264



701377

ANIMAL HEALTH PRODUCTS - ANTIMICROBIALS

Povidone Iodine Scrub prevents and treats fungal and bacterial skin infections in animals. A germicidal cleanser for pre-operative and post-operative skin washing, and a shampoo for bacterial and fungal skin infections. When used routinely, Povidone Iodine Scrub helps prevent infections in cuts, scratches, abrasions and burns. Non-staining to skin, hair, and natural fabrics. Active ingredients 0.75% titratable iodine. Triiodine-7 Spray is a three-iodine blend for use on horses, cattle, swine and sheep. It's a topical antiseptic for use as a counter-irritant in chronic inflammatory conditions and as a parasiticide for ringworm. It has the same usage parameters as the former 7% Iodine Tincture. This newer formulation is an ideal topical antiseptic and parasiticide. Also used as a pre- and post-operative dressing. This blend was developed to meet new USDA sales guidelines. Active ingredients 7% titratable iodine. Gentle Iodine Wound Spray is a non-stinging topical antiseptic to be used on horses, dogs, swine, cattle, and sheep. It is an aid in the treatment of foot rot, minor cuts and abrasions, and sores. For use as a skin disinfectant and prior to surgical procedures such as castration and docking and for application to the navels of newborn animals. Does not contain alcohol. Active ingredients 1% titratable iodine.

Chlorhexidine Scrub is available in either a 2% or 4% liquid. The 2% formula is 50% of the strength found in the pioneer human product 'Hibi-Cleans'. It contains chlorhexidine gluconate 2%, which exhibits bactericidal activity against a wide range of microorganisms. The 4% is a mild scrub containing chlorhexidine gluconate 4% which also exhibits bactericidal activity. It also contains 4% isopropanol. Isopropanol is effective against *Pseudomonas aeruginosa*. Chlorhexidine Solution is a topical aqueous solution containing 2% chlorhexidine gluconate. For use on non-food producing animals for application to superficial cuts, abrasions or insect stings. Chlorhexidine Solution leaves a residue on the skin which gives a persistent antibacterial effect lasting 1-2 days. Its actions are not affected by blood, pus, or soaps. Compare to the product Nobvasan™. Povidone Iodine Ointment is for treatment of fungal and bacterial skin infections in animals. When used routinely, it helps to prevent infections in cuts, scrapes and abrasions. An effective germicidal ointment. Treated areas can be bandaged or left open. Povidone Iodine Solution is a non-irritating, non-staining antiseptic microbicide. Kills gram negative and gram positive bacteria, fungi, viruses, protozoa, and yeasts. Film-forming, non-irritating, and non-staining to skin, hair, and natural fabrics.

- 997532 Povidone Iodine Scrub - 32 oz (each)
- 997564 Povidone Iodine Scrub - 1 gal (each)
- 997716 Triiodine-7 w/Sprayer - 16 oz (each)
- 997416 Gentle Iodine Wound Spray w/Sprayer - 16 oz (each)
- 703364 Chlorhexidine Scrub 2% - 1 gal (each)
- 703464 Chlorhexidine Scrub 4% - 1 gal (each)
- 703216 Chlorhexidine Solution - 16 oz (each)
- 703264 Chlorhexidine Solution - 1 gal (each)
- 997516 Povidone Iodine Ointment - 1 lb (each)
- 997565 Povidone Iodine Solution - 1 gal (each)

CLEANING AGENTS

Kimwipes® (701377) are a 4.5" x 8.5" disposable 1-ply task wipe. Anti-static and lint-free, these work especially well for cleaning delicate glassware and lab equipment.

Alconox® Powdered Precision Cleaner (125010) is a popular brand name glass and labware cleaning agent. A concentrated anionic detergent that rinses free - great for glassware, metals, plastic, ceramic, porcelain, rubber and fiberglass. Dilute 1:100. Liquinox® (125010) is a concentrated anionic detergent for manual and ultrasonic cleaning. Mild, no residue, and soluble in water.

- 701377 Kimwipes® Delicate Task Wipers - 4.5" x 8.5" (280/box)
- 125010 Alconox® Powdered Precision Cleaner - 4 lb (each)
- 125020 Liquinox® Detergent Concentrate - 1 gal (each)



Flexible bandage wraps are available in a variety of colors. Call us for an up-to-date listing of color options.

ANIMAL HEALTH PRODUCTS – TOPICAL PREPARATIONS, BANDAGES

Topical Fungicide is a topical spray utilizing benzalkonium chloride as a quaternary detergent anti-septic. Ideal for treating summer itch, girth itch and ringworm and other fungal problems in horses, dogs and cats. Magna-Poultice™ is a green decongestant poultice made of Epsom salt and Ben-Gay®. It is a viscous liquid unlike the paste formulations designed for cattle and horses. Works well for strains, sprains and bruises. Cohesive Flexible Bandages are a common, popular elastic wrap with a rubbery texture. Used regularly on the legs of horses, they are energy absorbing, stretch to up to 15 feet in length, and the material adheres to itself for ease in securing. Many colors available.

- 998080 Topical Fungicide w/Sprayer – 16 oz (each)
 990200 Magna-Poultice™ – 20 oz (each)
 996900 Cohesive Flexible Bandages, 4" x 5' – Red (each) (available in additional colors, too)

ANIMAL HEALTH PRODUCTS - MEDICATIONS

Reproduction Resources offers various additional medications for animal health maintenance as well. The Apple-flavored Aspirin Powder has long been a favorite of the equine industry for its highly palatable pain-relieving properties. Great for the temporary relief of pain, inflammation and discomfort associated with musculoskeletal disorders in horses or for use as an antipyretic in horses with respiratory complexes. Also an aid in reducing fever and for mild analgesia. May also be used on cattle, sheep, swine, poultry, and dogs. Bismusol Anti-diarrheal Liquid is a 'Pepto-Bismol'™-type product that has long been used for both upper and lower gastrointestinal symptoms. Includes dosage information for horses, cattle, dogs and cats. Priority Care™ Glycerin U.S.P. is a 99% glycerin – which enhances its ability to blend with other compounds, such as iodine. Most other brands of glycerine are a 95%, which can contain up to as much as 5% water, which can cause blending problems. Mineral Oil (95 visc.) is a mixture of liquid hydrocarbons from petroleum. It is for use as a mild laxative for the lubrication of the intestinal tract of horses, cattle, sheep, swine and dogs. A dosage chart is listed on the label.

- 997016 Aspirin Powder, Apple-flavored – 1 lb (each)
 997354 Bismusol Anti-diarrheal Liquid – 1 gal (each)
 026964 Glycerin U.S.P. – 1 gal (each)
 026980 Mineral Oil, 95 Viscosity – 1 gal (each)¹

ANIMAL HEALTH PRODUCTS – DISINFECTANTS

Propylene Glycol U.S.P. is used orally in ruminants, classified as a glucogenic agent. The U.S.P. grade is a higher purity classification than 'food grade'. It is used as an aid in prevention and treatment of ketosis (acetomenia) in dairy cattle. We carry Isopropyl Alcohol in either 70% or 99% concentrations. Commonly known as 'rubbing alcohol', it has a variety of applications, including as an antiseptic, disinfectant, and rubefacient. Great for prepping instruments or relieving muscular aches by massaging it in affected areas. The 99% may be used full-strength or diluted to the more common 70% strength. Please note that only quart-sized units or smaller may be shipped conventionally (indiv. or by case lots). Gallon jugs are considered hazardous materials and must be shipped by prearranged means or picked up directly from our facility.

Virocid™ Disinfectant is a powerful, environmentally friendly concentrate with a wide range of applications – from breeding equipment to animal transport vehicles to milking equipment or as a boot dip. At a 1:400 dilution rate with water, it goes a long way, too. Biodegradable.

- 997069 Propylene Glycol U.S.P. – 1 gal (each)¹
 997132 Isopropyl Alcohol 70% – 32 oz (each)¹
 997232 Isopropyl Alcohol 99% – 32 oz (each)¹
 997164 Isopropyl Alcohol 70% – 1 gal (each)¹
 997236 Isopropyl Alcohol 99% – 1 gal (each)¹
 833963 Virocid™ Disinfectant – 1.33 gal (each)

¹ Items with this symbol indicate 'commodity-based' pricing structures. These products have a fluctuating price base due to their current stock market trading values. These prices will vary on a month-by-month basis. Please inquire about current pricing at time of order.



997069



997132



997232



833963



101050



821010



821052

Length: 10" (rack) 11" (tip-to-tip)
Width: 5.75"
Height: 2"



821000



821060



821020

Length: 14" (rack) 15.5" (tip-to-tip)
Width: 5.75" Height: 2"

15040/0070



Canine-EXT™
EXTENDER FOR CANINE
CHILLED SEMEN

100ml (each)
Part A
Product No. 106015



Canine-EXT™
EXTENDER FOR CANINE
CRYOPRESERVED SEMEN

100ml (each)
Part A
Product No. 106022



Canine-EXT™
EXTENDER FOR CANINE
CRYOPRESERVED SEMEN

100ml (each)
Part B
Product No. 106024



Canine-EXT™
EXTENDER FOR CANINE
CRYOPRESERVED SEMEN

100ml (each)
Part C
Product No. 106026



Canine-EXT™
EXTENDER FOR CANINE
CRYOPRESERVED SEMEN

100ml (each)
Part A-B-C
Product No. 106028



988675



631220

BUBBLER COMBS, RACKS, DOCKING RINGS

Docking Rings are the tiny green 'donut' rubber bands used commonly in canine collections. Originally designed for tail docking and castration, they're used most commonly in our industry for holding disposable plastic collection cones to 15ml centrifuge tubes. The small bands are just the right size to help seal the plastic cone to a standard centrifuge tube.

Bubbler Combs & Baskets are handy disposable units for assisting in semen straw filling. The 'comb' unit holds the filled straws, with the tines creating both a consistent fill and a tiny air space to prep for sealing. The 'basket' catches the residual runoff from the straws, so none is wasted. We also have the optional Bubbler Support Unit, which is a stainless steel base unit holder for the whole assembly. For filling straws, the 20-straw filling manifold (for 1/4cc straws) or the 15-straw filling manifold (for 1/2cc straws) makes the whole job more efficient - allowing consistent, fast filling. Another popular option is to use a small luer-tip syringe (1-3cc volume) and a syringe-to-straw adapter. Very simple, very inexpensive (see page 17). For cooling or freezing racks, we have three options. The aluminum Distribution Block will handle both 1/2cc and 1/4cc straws. It is machined out of aluminum block stock and can handle up to 58 straws at a time. This solid rack design has a 57mm total height. The 'open-style' cooling/freezing racks are available in either a 50-straw or 100-straw model. These lightweight stainless racks have wire handles on both ends and legs that taper in to allow them to fit more easily within the cooling chamber/polystyrene box.

- 101050 Docking Rings (100/pk)
- 821000 Bubbler Combs & Baskets - 1/2cc Straws (25/pk)
- 821001 Bubbler Combs & Baskets - 1/4cc Straws (25/pk)
- 821010 Bubbler Support Unit, Stainless Steel (each)
- 821060 Straw Filling Manifold - up to 15 1/2cc Straws (each)
- 821052 Aluminum Machined Straw Distribution Block - 58 1/2cc Straws (each)
- 15040/0070 Straw Cooling/Freezing Rack, Lightweight Wire - 50 1/2cc Straws (each)
- 821020 Straw Cooling/Freezing Rack, Lightweight Wire - 58 1/2cc Straws (each)
- 821040 Straw Cooling/Freezing Rack, Lightweight Wire - 100 1/4cc or 1/2cc Straws (each)

CANINE SEMEN EXTENDERS

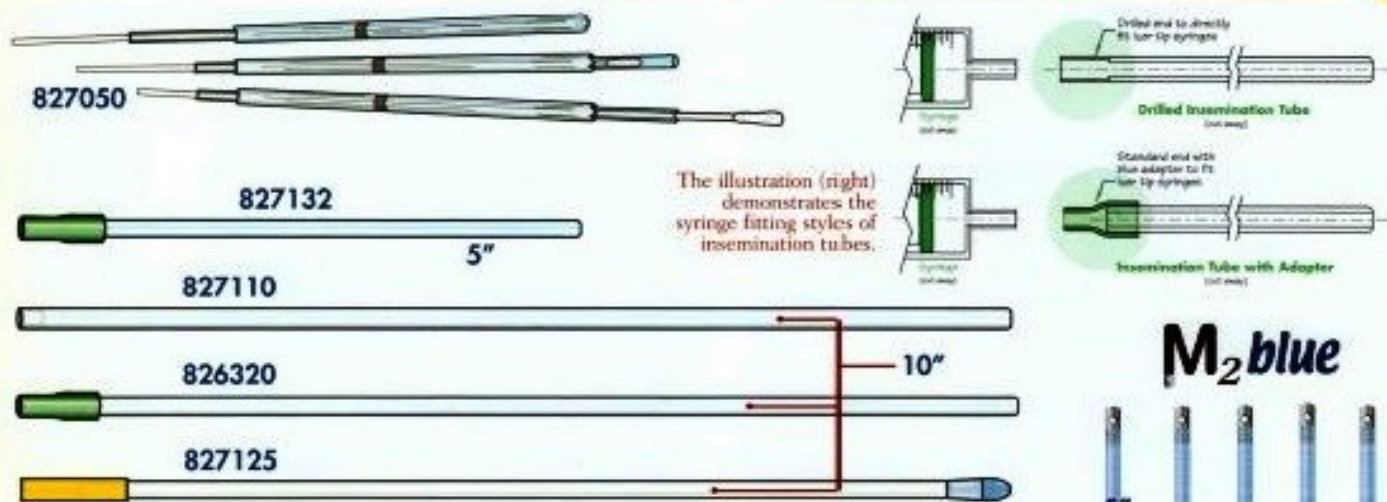
Reproduction Resources now offers canine semen extenders for both chilled and frozen semen. Our Canine-EXT™ line of extenders have been formulated specifically for canine repro work. The Canine-EXT™ Chilled Semen Extender is designed for fresh cooled shipments and the 3-step Canine-EXT™ Cryopreservation Extender is designed for freezing and thawing of longer-term frozen semen. The 3-step freezing extender stages include an initial extender, one to be used during the freezing stage, and one to be used in the thawing process. They can be purchased individually or as a kit. Both the chilled and freezing formulations include complete instructions. These extenders will require additional ancillary components (egg yolk, glycerol, Equex-STM). Please contact us for further information. Equex-STM aids in the preservation of semen. It is a viscous concentrated liquid that is added to certain semen extenders. Glycerol is used as an additive in freezing extenders as a cryoprotectant - it helps to preserve membrane integrity of the sperm.

- 106015 Extender, Canine-EXT™, Chilled Semen - 100ml (each)
- 106022 Extender, Canine-EXT™, Cryopreservation, Initial Extender-Part A - 100ml (each)
- 106024 Extender, Canine-EXT™, Cryopreservation, Freezing Extender-Part B - 100ml (each)
- 106026 Extender, Canine-EXT™, Cryopreservation, Thawing Extender-Part C - 100ml (each)
- 106028 Extender, Canine-EXT™, Cryopreservation, 3-Part Kit [A,B,C] - 3 x 100ml (each)
- 106040 Equex-STM™ - 5ml (each)
- 106010 Glycerol - 10ml (each)

CANINE SEMEN SHIPPERS

We've got the shippers to get the semen where it needs to go safely! The Reproduction Resources Impact™ VIP is the way to go. See the special informational page (#39) of this catalog for more details. Additionally, the Canine Express II/Equine Express II™ shipper has been around for years. 2" polystyrene insulation with phenolic block-style freeze block for consistent shipments.

- 988675 Impact™ VIP Canine Chilled Semen Shipper - Disposable (each)
- 631220 Canine Express II™ Chilled Semen Shipper - Disposable (each)



The illustration (right) demonstrates the syringe fitting styles of insemination tubes.

CANINE CULTURE SWAB

This guarded culture swab was designed specifically for the canine market (although it is now being used on other species as well, such as small ruminants). This 14 inch guarded swab consists of an outer soft PVC sleeve with perforated tip covering an inner tubular guard within which is housed the cotton swab-style collection tip. All components move independently of each other, allowing passage through the vaginal area, then the smaller-diameter inner sleeve to push through the perforated tip, and finally the swab portion to be pushed out of the end for sampling. The swab is then withdrawn into the inner sleeve, the inner drawn back into the outer sleeve, and the whole apparatus then withdrawn from the animal. The inner tube containing the swab portion is also scored so that it may be broken down and placed directly into a culture media for sending for lab analysis. This system helps to prevent any outside contaminants from affecting the sample.

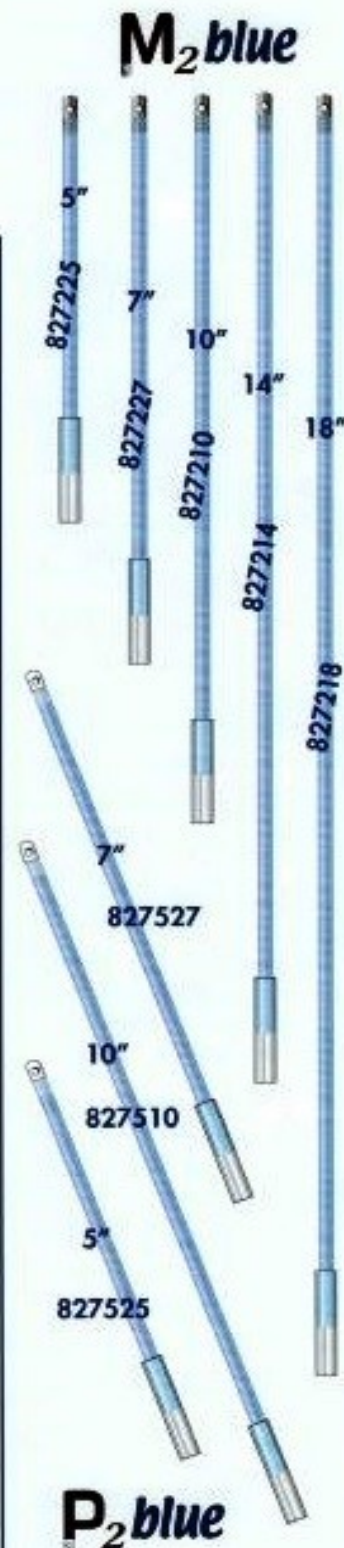
827060 Canine Guarded Culture Swab - 14" (each)

627062 Canine Guarded Culture Swab w/Ames™ Transport Media - 14" (each)

CANINE INSEMINATION TUBES

These are insemination tubes designed especially for the canine market. Several varieties available, including tubes with drilled-out tips to accommodate a standard luer-slip syringe or versions with the popular flexible syringe adapter tip. Most popular are the versions that are individually wrapped and sterilized. Newer to the market are the 5- and 7-inch lengths, which have become popular for toy breeds. The drilled end 10 inch tubes act much like an extension of the luer-tip syringe. They fit snugly and rigidly to the syringe, giving the feel of a single joined unit. If you prefer a bit more flexibility in your canine tubes, then an insemination tube with flexible syringe adapter is the way to go. Options here include the stiff clear 5" or 10" tubes (827132, 826320) tubes, or try the Stip-Tip™, M2Blue or P2Blue™ tubes. The Stip-Tip™ M2Blue and P2Blue™ tubes have a smaller shaft diameter and more flexibility than the original clear tubes. The Stip-Tip™ tube has a unique 'bullet-shaped' insertion tip. Our most popular designs are the M2Blue™ and P2Blue™ Insemination tubes. They have a flexible blue shaft and a unique insertion tip with dual side ejection ports. This style also represents the thinnest diameter 10" or 5" tube we carry, which may be less intrusive for the animal. Having two side ports offers a wider dispersal of semen, as well. Offered with the original stainless steel tip (M2) or in the newer plastic tip (P2). Five lengths to choose from to best suit the breed of dog you're inseminating. Packaged individually wrapped and sterilized, 5 per pack. For questions on any of these tubes, please don't hesitate to call us and ask - we'll be happy to assist you!

- 827110 Canine Insem. Tube, Indiv. Wrapped & Sterilized - 10" Drilled (25/pk)**
- 827112 Canine Insem. Tube, Bulk Pack (non-sterile) - 10" Drilled (25/pk)**
- 826320 Canine Insem. Tube, Indiv. Wrapped & Sterilized - 10" w/Adapter (25/pk)**
- 826322 Canine Insem. Tube, Bulk Pack (non-sterile) - 10" w/Adapter (25/pk)**
- 827125 Canine Insem. Tube, STIP-TIP™, Indiv. Wrapped & Sterilized - 10" w/Adapter (25/pk)**
- 827132 Canine Insem. Tube, Indiv. Wrapped & Sterilized - 5" w/Adapter, Small Diameter (25/pk)**
- 827225 Canine Insem. Tube, M2BLUE™ Indiv. Wrapped & Sterilized - 5" w/Adapter (5/pk)**
- 827227 Canine Insem. Tube, M2BLUE™ Indiv. Wrapped & Sterilized - 7" w/Adapter (5/pk)**
- 827210 Canine Insem. Tube, M2BLUE™ Indiv. Wrapped & Sterilized - 10" w/Adapter (5/pk)**
- 827214 Canine Insem. Tube, M2BLUE™ Indiv. Wrapped & Sterilized - 14" w/Adapter (5/pk)**
- 827218 Canine Insem. Tube, M2BLUE™ Indiv. Wrapped & Sterilized - 18" w/Adapter (5/pk)**
- 827525 Canine Insem. Tube, P2BLUE™ Indiv. Wrapped & Sterilized - 5" w/Adapter (5/pk)**
- 827527 Canine Insem. Tube, P2BLUE™ Indiv. Wrapped & Sterilized - 7" w/Adapter (5/pk)**
- 827510 Canine Insem. Tube, P2BLUE™ Indiv. Wrapped & Sterilized - 10" w/Adapter (5/pk)**
- 827514 Canine Insem. Tube, P2BLUE™ Indiv. Wrapped & Sterilized - 14" w/Adapter (5/pk)**
- 827518 Canine Insem. Tube, P2BLUE™ Indiv. Wrapped & Sterilized - 18" w/Adapter (5/pk)**





A Typical Kit Might Include:

- (1) 15 ml Centrifuge Tube
- (1) Collection Cone / A.V.
- (1) Docking Ring
- (1) 10" Insemination Tube
- (1) 5" Insemination Tube
- (1) 10cc Syringe
- (1) Pair of Wrist Gloves
- (1) 1oz Lubricant

FOR ADDITIONAL CANINE-RELATED REPRODUCTION SUPPLIES, INCLUDING STRAWS, SEALING POWDER, GOBLETs, CANES & TABS, COLLECTION CONES, CENTRIFUGE TUBES, SEMEN ANALYSIS AND MORE, PLEASE SEE OUR 'COLLECTION SUPPLIES' SECTION AT THE FRONT OF THIS CATALOG (PAGES 1-10)

Many of the above listed supplies are used for a multitude of various species applications.

Collection Cones,
Centrifuge Tubes 1
Semen Analysis 3,4
Straws, Filling,
Labeling 5-8
Freezing, Storage 9
Lubricants 13
Syringes,
Adapters 17
Thawing 30
Thermometers,
Tweezers 31
Microscopes 32
Centrifuges 33
Disinfectants 34-35

CANINE COLLECTION/INSEMINATION KITS

We will gladly preassemble a canine collection/insemination kit to suit your particular needs. A great option if you prefer to have a premade kit of components at the ready instead of pulling individual items from your inventory. We can also private label a kit with your name/logo/information.* Whatever the reason, we'll assemble and customize a kit to your liking. Since there are a wide range of possible components to make up a kit (and a wide range of preferences and dog sizes), kit prices will vary based on the components you choose. We recommend calling us for a custom quote for your kit if it is a first-time order. For repeat orders, we keep records of each customer's kits to make life easier for you! We'll assign your kit its own product number as a convenient reference. Please keep in mind the list below of possible components for your kit. When requesting a quote, indicate the item and quantity of each. Many of the items come standard as individually wrapped and sterilized. For those that don't, please indicate if this is desired. Additional packaging and sterilization costs may apply.

828225 Canine Collection / Insemination Kit - Call for Quote (each)

Optional Components Include:

- 077000 Disposable End Cone
- 077010 Disp. End Cone - Open End
- 077020 Disp. End Cone - Satin Pocket
- 077100 Lightwt. Latex End Cone
- 077110 Heavywt. Latex End Cone
- 101050 Docking Ring
- 076600 15ml Centrifuge Tube
- 076700 15ml Centrifuge Tube w/Cap
- 076710 15ml Centrifuge Tube w/Plug Cap
- 206603 3cc Syringe (SIW)
- 206605 5cc Syringe (SIW)
- 206610 10cc Syringe (SIW)
- 206620 20cc Syringe (SIW)
- 206630 30cc Syringe (SIW)
- 827132 5" Clear Insem. Tube w/Adapt. (SIW)
- 827110 10" Clear Insem. Tube, Drilled (SIW)
- 826320 10" Clear Insem. Tube w/Adapt. (SIW)
- 827125 10" Stip-Tip Tube w/Adapt. (SIW)
- 827225 5" M^oBlue Tube w/Adapt. (SIW)
- 827227 7" M^oBlue Tube w/Adapt. (SIW)
- 827210 10" M^oBlue Tube w/Adapt. (SIW)
- 827214 14" M^oBlue Tube w/Adapt. (SIW)
- 827218 18" M^oBlue Tube w/Adapt. (SIW)
- 827525 5" P^oBlue Tube w/Adapt. (SIW)
- 827527 7" P^oBlue Tube w/Adapt. (SIW)
- 827510 10" P^oBlue Tube w/Adapt. (SIW)
- 827514 14" P^oBlue Tube w/Adapt. (SIW)
- 827518 18" P^oBlue Tube w/Adapt. (SIW)
- 026661 Sterile Lubricating Jelly - 1oz
- 860106 Wrist Glove, Polyeth. - Med.
- 860102 Wrist Glove, Polyeth. - Large
- 860201 Wrist Glove, Vinyl - Med.
- 860202 Wrist Glove, Vinyl - Large
- 860203 Wrist Glove, Vinyl - XL

Requests for additional items may be made. SIW = Sterilized, Individually Wrapped.

*For private labeling of kits with your information and/or logo, add 50¢ to the price of each kit.

IMPACT SHIPPER™

V.I.P.

Components:

- A Outer Printed Corrugate Box
- B Spun-fiber Biodegradable Insulator
- C Phenolic Blocks 'a-b-c'
- D ThermalShield™ Insulated Pouches (x2)

WHY CHOOSE THE IMPACT V.I.P.?

It's compact.

We've done our shipping study homework. With this new smaller size, **save about \$6.00 on air shipments** anywhere in the U.S. as compared to the leading competitor shippers.

It's convenient.

Easy to prepare and load with separate vessels for each sample. The phenolic cool packs won't deform if frozen incorrectly, either - so they'll always fit.

It's green.

The fiber insulating material and packaging are fully biodegradable, unlike the commonly-used EPS foam.

Price.

Our design efforts went beyond functionality - they were also focused on your bottom line. Not only are our Impact V.I.P. Shipper™ units less expensive to priority ship - they're also less expensive to purchase.

WE'LL HELP GET YOUR VERY IMPORTANT PACKAGE WHERE IT NEEDS TO BE SAFELY AND INEXPENSIVELY.



Shipper preparation and loading instructions are affixed to the inside flap of each shipper



The **IMPACT Shipper VIP™** has a design offering a desirable gradual cooling rate. The combination of insulation material, air barriers, and multi-unit phenolic blocks allows the user to set up the unit ideally for all ambient temperature conditions.

The graphs to the left demonstrate testing of the **IMPACT Shipper VIP™** versus the popular Equitainer® shipper and Equine Express II® shipper in warm weather conditions, neutral ambient conditions, and cold conditions. The **IMPACT VIP™ Shipper** is an advancement in disposable shippers in many ways.

Performance, efficiency, size, and environmental friendliness. Try it and you'll see what a positive impact it can have on your shipping.

Filled syringes or centrifuge tubes are loaded into the Thermal Shield™ pouch(es)

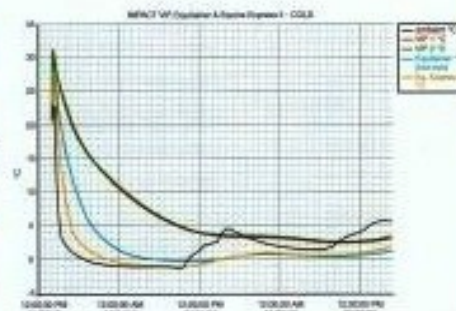
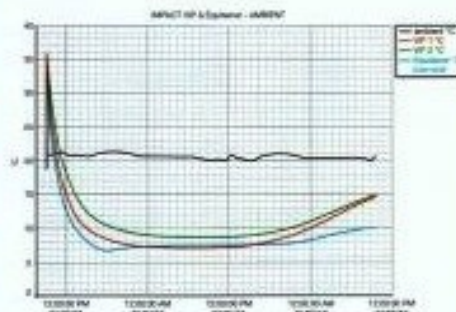
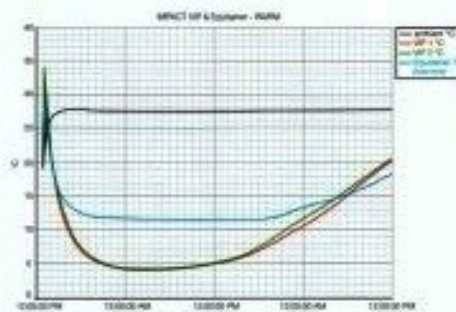


Dimensions

Inner Chamber: 9"L x 6.5"W x 3"D

Outer Box: 14"L x 9"W x 7"D

Inner chamber and ThermalShield™ pouches designed to accommodate fully-loaded (up to) 60cc syringes (plunger extended), Whirlpak™ bags, centrifuge tubes, semen bags, etc. UPS shipping weight (dimensional) equal to 10 lbs.

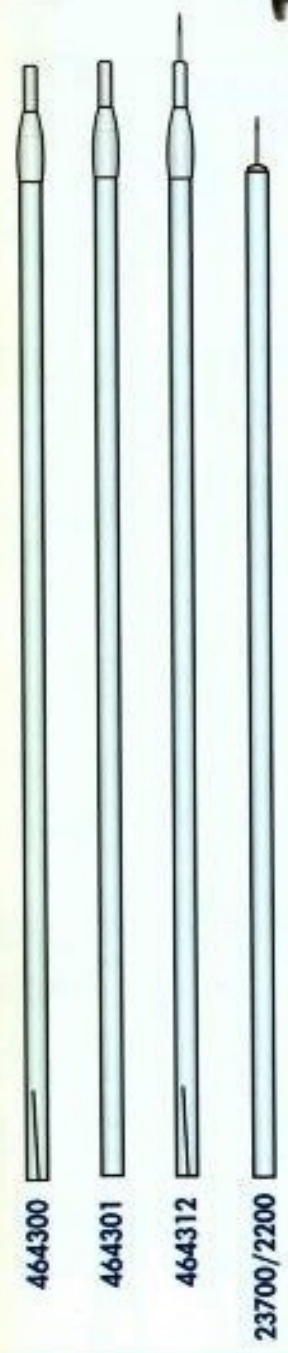


IMPACT VIP SHIPPER™

Please keep in mind that since the Impact VIP™ Shipper is designed and assembled at Reproduction Resources, we have components for the shipper available as well, including the phenolic block warm/cool packs and Thermal Shield™ insulated liners (in many sizes and options). Please call for details!

988675 IMPACT VIP Shipper™ Disposable Cooled Semen Shipper (each)

*Extreme heat or cold may extend or shorten this temperature-maintenance duration.



GOAT/SMALL RUMINANT A.I. GUNS

We carry three versions of goat artificial insemination straw guns, the All-2-Mate™ Goat Gun, the QuickLock Classic Goat Gun and the Robertson® AI Gun. The All-2-Mate™ gun is a stainless 12" insemination gun that operates very much the same as the cattle guns. It's an 'O'-ring-style gun designed to be used with a slit sheath. The All-2-Mate™ gun will work with either 1/2cc or 1/4cc wick and powder semen straws, and with the 1/2cc standard slit goat sheath, the 1/2cc slit goat sheath with insert, the apex-style slit sheath, or the 12" LaproPex™ needle-tipped sheaths (see 'Sheaths' below for descriptions). The Quicklock Classic Goat Gun is a universal gun for use with either 1/2cc or 1/4cc straws and can be used with either slit (green insert) or unslit (blue insert) 12" A.I. sheaths. The Robertson® AI Plunger is a specialized straw gun for dispensing finite/measured doses of semen from 1/4cc straws - included dispensing partial contents of straws if necessary. This stainless apparatus uses threaded adjustment rings so when plunged, a set measurement is dispensed in stepped amounts. The Robertson® AI Plunger must be used in conjunction with a Robertson® needle-tipped pipette. Many breeders also use 18" bovine length A.I. guns for small ruminant insemination. Bovine A.I. guns can be found on Page 11 of this catalog.

- 463250 All-2-Mate™ Goat Insemination Gun - 12" (each)
- 17350/0000 QuickLock Classic™ Goat Gun - 12" (each)
- 23700/2205 Robertson® AI Plunger - 1/4cc Straws (each)

SHEATHS FOR GOAT/SMALL RUMINANT A.I. GUNS - STANDARD, LAPRO-PEX™

For the All-2-Mate™ Goat Gun, you have options. First, there's the standard, plain 'French-style' 1/2cc slit goat sheath. The 1/2cc or 1/4cc wick and powder straws are seated into the interior tip of the sheath when it is fully affixed to the gun. The second option is the 'insert-style' slit sheath. This style of sheath uses a sliding insert within the barrel of the sheath that seats the straw snugly, whether 1/2cc or 1/4cc, as the sheath is being slid onto the gun. We carry the insert sheaths in either a slit version (green inserts) or in an unslit version (blue inserts). The All-2-Mate™ gun requires the use of a slit sheath. The QuickLock Classic™ Goat Gun uses either slit or unslit sheaths. A third style that works well (and is especially popular with goat breeders) is the Goat Sheath with Apex (464300). The apex tip on these sheaths tapers down to a small diameter allowing dispensing at the cervix. The interior portion of the apex design also acts as a straw seating device, so both 1/2cc and 1/4cc straws can be used with it. The newest version of the goat sheath is a specialty product called a LaproPex™ Sheath. The LaproPex™ Sheath is an apex-style sheath with a 24 gauge 1/3" needle welded to the tip. This style enables laproscopic inseminations with use of standard semen straws and stainless A.I. guns. These sheaths are sold individually in either a 12" or 18" version (the 18" version requires a cattle-length A.I. gun). They'll fit inside a 5.5mm trocar or larger.

- 464200 Goat Sheath, French-style - 1/2cc (25/pk)
- 464300 Goat Sheath with Apex, Slit, Individ. Wrapped (5/pk)
- 464301 Goat Sheath with Apex, Unslit, Individ. Wrapped (5/pk)
- 464302 Goat Sheath with Apex, Slit (5/pk)
- 464303 Goat Sheath with Apex, Unslit (5/pk)
- 464400 Goat Sheath, Slit w/Green Insert (25/pk)
- 464401 Goat Sheath, Slit w/Green Insert, Individually Wrapped (25/pk)
- 464500 Goat Sheath, Unslit w/Blue Insert (25/pk)
- 464501 Goat Sheath, Unslit w/Blue Insert, Individually Wrapped (25/pk)
- 464312 LaproPex™ Sheath, Slit w/24 gauge Needle, Individ. Wrapped - 12" (each)
- 464318 LaproPex™ Sheath, Slit w/24 gauge Needle, Individ. Wrapped - 18" (each)
- 23700/2200 Robertson Standard Pipette (each)
- 23700/2201 Robertson Pipette 'Donor Ewes' (each)

Collection Cones,
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Bovine A.I.
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SPECULUMS FOR GOATS, DEER, CAMELIDS

Tubular speculums make performing AI and OB work on small ruminants much easier. We have a couple of different options available, from the basic rigid tube to the popular model with built-in light source. The basic standard plastic speculum is a clear plastic cylindrical tube available in small or large size. The smaller of the two versions is 8 inches in length with a 1 inch outside diameter. The larger version is also 8 inches in length, but with a 1.25" outside diameter. The popular versions of these speculums have a convenient removable light source that fits within an inner tube affixed to the inner wall of the speculum. The light itself is at the end of a bendable 7 inch lead wire attached to the portable power source. This unit pours light right where it's needed without the user having to hold a light in his/her mouth and try and aim. With an efficient and ultra-bright LED source, you won't have to replace a bulb - ever - and the button-style battery will give you more than 100 hours of use before thinking about replacement. The Streamlight™ unit is fully immersible in water and can be washed and disinfected as necessary. Its small size and remarkably light weight will allow it to stay within the tube on its own. Pull the light out of the speculum, clean the outer tube, and you're ready to reuse it over and over again. The unique characteristics of the clear plastic speculum tube also tend to refract the light down and through the walls. Fits easily into a pocket, kit box, or apron. The components are also available individually, so you can use one light source for multiple speculum tubes. The portable flexible light source can come in handy for multiple applications.

- 467200 Speculum, Clear Plastic, Small - 1" Diam. (each)
- 467210 Speculum, Clear Plastic, Large - 1.25" Diam. (each)
- 467205 Speculum w/Inner Tube for Light Source, Clear Plastic, Small - 1" Diam. (each)
- 467215 Speculum w/Inner Tube for Light Source, Clear Plastic, Large - 1.25" Diam. (each)
- 467300 Speculum w/Inner Tube & Portable Light Source, Clear Plastic, Small - 1" Diam. (each)
- 467400 Speculum w/Inner Tube & Portable Light Source, Clear Plastic, Large - 1.25" Diam. (each)
- 467500 Streamlight™ Portable Light for Speculum (each) (battery included)

CIDR® II (SMALL RUMINANT) SUPPLIES

The sheep/goat/whitetail CIDR inserts are used for synchronizing and inducing estrous cycles. Instructions for application with each pack.

- 325112 CIDR® II Small Ruminant Inserts (20/pk)
- 325116 CIDR® II Applicator Gun (each)

ANIMAL HEALTH PRODUCTS - NUTRITIONAL SUPPLEMENTS

Survive-D™ (*998401) deer supplement is a vitamin E and energy supplement specially designed for newborn fawns, weak and off-feed deer. The liquid supplement is administered orally via dosage pump. Ideal for fawns that are being grafted, raised artificially, or on poor milking does. Also good for weak or cold fawns, does and sporting animals. Recommended dosage indications are printed on the label for your convenience.

- 998401 Survive-D™ Deer Supplement - 8 oz (each)

PRE-PRINTED STRAWS

Want to avoid the tedium of hand printing a large batch of straws with the same information over and over again? Are you 'penmanship challenged' when trying to write tiny names and numbers? We have the capability to custom preprint straws in any quantity you desire and on any of our 1/2cc or 1/4cc straw stocks. Simply send us the information you'd like to have printed on the straw, the straw volume and color and leave the rest to us. One day turnaround for standard straws. We can print up to 75 characters per line and up to three lines on 1/2cc straws (or 1 line on 1/4cc straws). Your time - or your tech's time - is worth money. An affordable, efficient method for identifying straws. Sequential numbering also an option for high value straw IDs.

- 442642 Custom Printed Straws - Your information [minimum quantity: 100] (each)

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998401

FOR ADDITIONAL GOAT & DEER BREEDING SUPPLIES, INCLUDING STRAWS, SEMEN ANALYSIS EQUIPMENT AND MORE - CHECK OUT OUR 'COLLECTION EQUIPMENT & SUPPLIES' ON PAGES 1-4.



864110

We know where these gloves are going, and we know you're wearing them to keep certain things off of your hands.

That's why we're picky about the gloves we sell.

We've tested dozens over the years, and only approve those that have seams that hold up, consistent material thickness, and the best available softness and sensitivity.

So wear them with confidence, but please take them off before shaking anyone's hand!



860315



861306



861010

The fingerless sleeve/bag is ideal for applying lube to the inside of an equine artificial vagina.

860450



The glove without fingertips is designed for use with a form-fitting wrist glove when dexterity is required.



861500



WHAT'S THE DOT STICKER FOR?

You'll notice on most of our individually wrapped & sterilized gloves that there's a sticker in the corner. This is an aid to pulling them on as quickly and cleanly as possible. The dot indicates that the thumb is 'up'.



863022



864115

SHOULDER GLOVES - STANDARD, NON-STERILE

The standard clear is a 1.25 mil thickness polyethylene glove with a 45° thumb angle. For a more sensitive feel, going to either a 1 mil thickness glove or a glove with EVA (ethyl vinyl acetate) for a softer texture are two ways of reaching a similar goal. For a more durable glove (less sensitive, the 1.75 mil thickness glove is the answer. All of these gloves are 34 inches in length.

861000 Glove, Polyethylene Shoulder-Length, Clear - 1.25 mil (100/box)

861010 Glove, Polyethylene Shoulder-Length, Clear - 1 mil (100/box)

861020 Glove, Polyethylene Shoulder-Length, Clear - 1.75 mil (100/bag)

SHOULDER GLOVES - SENSITIVE

If it's greater feel or dexterity you're looking for in a shoulder glove, the following gloves may be of interest. The BioSafe™ Ultratouch gloves have EVA (ethyl vinyl acetate) added to them, which gives the material a much softer, 'satin-like' feel. They're not as stiff as the standard poly gloves, and the EVA also allows stretching to a greater degree without bursting. Available in a clear 1.25 mil style or the extra sensitive 1 mil version. For polyethylene vet gloves, the Sensitive Blue 1 mil vet gloves have been a popular option for years. These gloves are the same types that are also available in the individually wrapped and sterilized category, below. For those with smaller hands, steer toward the Supersensitive™ blue shoulder glove designed with a diecut for smaller hands.

860315 Glove, Bio-Safe™ Ultratouch, Red - 1 mil (100/box)

860313 Glove, Bio-Safe™ Ultratouch, Yellow - 1 mil (100/box)

864110 Glove, Sensitive Vet, Blue - 1 mil (100/bag)

864400 Glove, Sensitive Vet, Clear - 1 mil (100/box)

864405 Glove, Supersensitive™, Blue, Small Hand - 1 mil (100/box)

SHOULDER GLOVES - STERILIZED & INDIVIDUALLY-WRAPPED

Our individually-wrapped and sterilized shoulder gloves are available in a couple of different options and packaging. They are all alike in that they're folded and packed consistently. The unique packaging feature for the sterilized gloves is the 'thumb-side-up' sticker. This is an indication sticker on the glove showing which side of these ambidextrous gloves the thumb is on, so when you're pulling them on, you can do it quickly and efficiently. The blue gloves and yellow gloves are available in two packaging options - either in a ziplock pack of (12) individually-wrapped gloves or in a corrugate box of (50) individually-wrapped gloves. Sterilization for all gloves is via ethylene oxide. For those with smaller hands looking for a sterile glove that fits a little better, the Supersensitive™ small-hand diecut gloves are also available.

864025 Glove, Sensitive Vet, Yellow, Indiv. Wrapped & Sterilized - 1 mil (50/box)

864102 Glove, Sensitive Soft Vet, Blue, Indiv. Wrapped & Sterilized - 1 mil (12/bag)

864115 Glove, Sensitive Soft Vet, Blue, Indiv. Wrapped & Sterilized - 1 mil (50/box)

863022 Glove, Supersensitive™, SMALL HAND, Indiv. Wrapped & Sterilized - 1 mil (12/bag)

863025 Glove, Supersensitive™, SMALL HAND, Indiv. Wrapped & Sterilized - 1 mil (50/box)

SHOULDER GLOVES - SHOULDER-PLUS™, FINGERLESS

Shoulder-Plus™ gloves are much like the standard gloves above in performance, but are 39" in length rather than the standard 34". The basic Shoulder-Plus™ glove is brown and comes packaged 100 per ziplock bag. The Supersensitive Shoulder-Plus™ glove is dark blue in color and manufactured of a soft polyethylene for greater tactile sensitivity. The Shoulder Sleeve is a 30" long, 9 inch wide fingerless sleeve, or bag. An inexpensive alternative to a standard clear glove where dexterity is not of large importance. We also carry a 36" glove with the fingertips removed. This type of glove would be used in conjunction with a latex or similar tight-fitting wrist glove.

861306 Glove, Shoulder-Plus™ Extra Long, Brown - 1.25 mil (100/bag)

861400 Glove, Supersensitive Shoulder-Plus™ Extra Long, Dark Blue - 1 mil (100/bag)

861500 Shoulder-Length Fingerless Sleeve (Bag), Clear - 1 mil (100/box)

860450 Shoulder-Length Fingerless Glove (Open Fingertips), Light Blue - 1.25 mil (100/box)



DISPOSABLE COVERALLS

Sometimes you need more than just your arms and feet covered. We offer both Tyvek® and polypropylene coveralls that cover everything from your ankles up to your neck. Both have zippered fronts.

- 86060x Coverall, Tyvek® - Please Specify M, L, XL, XXL or XXXL (each)
 86061x Coverall, Polypropylene - Please Specify L, XL, XXL or XXXL (each)

WRIST-LENGTH GLOVES - POLYETHYLENE

Polyethylene wrist-length gloves are the popular disposable glove-of-choice for the canine collection industry. These are a clear 'plastic bag-style' glove. Great as a one-time-use glove for multiple applications.

- 860102 Wrist Glove, Textured Polyethylene - Large (100/box)
 860106 Wrist Glove, Polyethylene - Medium (100/box)
 860107 Wrist Glove, Polyethylene - Large (100/box)

WRIST-LENGTH GLOVES - VINYL

Vinyl wrist gloves are a close-fitting glove that works well for both collection and simple examinations. The vinyl glove is not quite as form-fitting/tight as a latex, nitrile, or syntrile glove, but it's an inexpensive alternative. Powder-free.

- 860201 Wrist Glove, Vinyl, Powder-free Collection - Medium (100/box)
 860202 Wrist Glove, Vinyl, Powder-free Collection - Large (100/box)
 860203 Wrist Glove, Vinyl, Powder-free Collection - XL (100/box)

WRIST-LENGTH GLOVES - TEXTURED NITRILE & SYNTRILE™

Nitrile gloves are a snug, form-fitting wrist glove. Suitable for many applications, they allow fine dextrous movement. Available as lightly-powdered for ease in pulling on or as powder free. The powder is an inert corn-starch base (non-chemical, non-hazardous). The palm surface is textured to improve grip. The Syntrile™ gloves are also textured. These are basically a synthetic nitrile glove, exhibiting similar characteristics as the nitrile version. Both styles of these gloves are an excellent choice as a form-fitting glove for those with latex allergies.

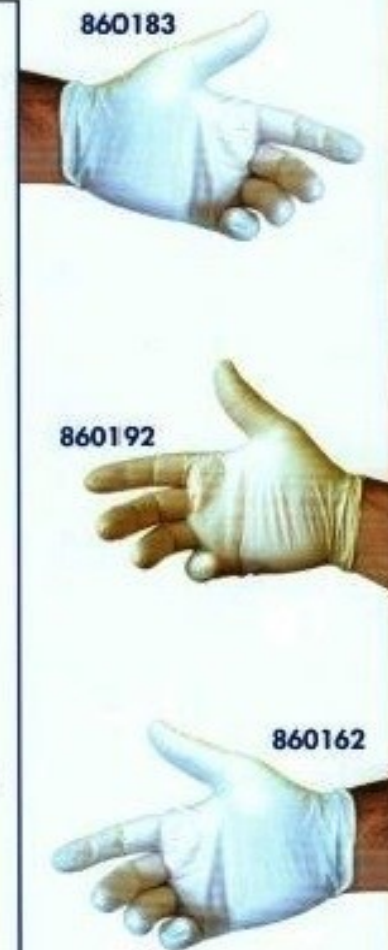
- 860142 Wrist Glove, Textured Nitrile, Lightly-powdered - Large (100/box)
 860143 Wrist Glove, Textured Nitrile, Lightly-powdered - XL (100/box)
 860152 Wrist Glove, Textured Nitrile, Powder-free - Large (100/box)
 860153 Wrist Glove, Textured Nitrile, Powder-free - XL (100/box)
 860182 Wrist Glove, Textured Syntrile™, Powder-free - Large (100/box)
 860183 Wrist Glove, Textured Syntrile™, Powder-free - XL (100/box)

Most of the wrist gloves we carry are also available in additional sizes. Please call with inquiries.

WRIST-LENGTH GLOVES - TEXTURED LATEX

Latex gloves have long been popular as a form-fitting exam glove. Also commonly used in milking applications. These gloves have a textured palm area for improved grip and are available in either a lightly-powdered or powder-free option. The powder is an inert corn-starch base (non-chemical, non-hazardous).

- 860192 Wrist Glove, Textured Latex, Lightly-powdered - Large (100/box)
 860193 Wrist Glove, Textured Latex, Lightly-powdered - XL (100/box)
 860162 Wrist Glove, Textured Latex, Powder-free - Large (100/box)
 860163 Wrist Glove, Textured Latex, Powder-free - XL (100/box)



Size Code for Wrist Glove Sizes - the last digit refers to size:

- Ends in '0' = Small
 Ends in '1' = Med
 Ends in '2' = Large
 Ends in '3' = XL

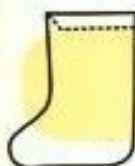
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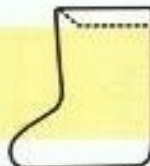
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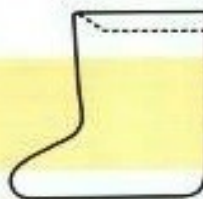
860505



Standard
Fits up
to size
10



X-Large
Fits up
to size
13



Jumbo
Fits up
to size
16

**TIE-TOP
BOOT
SIZING
DIRECTORY**

All of our disposable boots are designed to fit over a left or right foot.



860598



Elastic Cuffs

- No need to tie

Treaded Sole

- For extra grip on unsure surfaces
- For extra durability in the heaviest-wear area



860594



DISPOSABLE BOOTS

Disposable boots have two primary functions – keeping a person's lower legs clean and dry in wet or messy environments and as a biosecurity barrier to prevent the transference of germs, disease, or other biological agents. The basic design of the disposable boot is a poly plastic cover designed to be pulled over an existing shoe or boot for protection. Variations in the design include size, thickness of the material, how it is held on (elastic or tie-top) and plain or treaded-bottom.

They've become more popular over the past few years for their biosecurity functions in multiple settings – from travelling veterinarians to inspectors to fair personnel. For short duration wearing on finished surfaces, a thinner plastic boot works just fine. For longer stretches, rough or loose surfaces, or similar circumstances where greater wear will result, choose a boot with thicker walls or treaded base.

DISPOSABLE BOOTS – ELASTIC-TOP / TREADER™

For an outstanding, highly durable elastic-topped boot, the Treader™ line of disposable boots is the way to go. The Treader™ boot's patented unique pyramid-shaped treads not only increase wear and durability, they can also be an advantage on slippery surfaces where footing can be precarious. The tread pattern more than triples the thickness of the sole of these disposable boots – the highest wear area and usually the first part of a boot to fail – making Treaders™ one of the most durable boots on the market. Treaders™ currently come in two sizes. The XL size fits up to a size 12 boot or size 14 shoe. The Jumbo size fits up to a size 16 boot. Make it a Treader™ – the disposable boot with bite! Easily the best boot on the market. Don't need a full-height boot? The Treader™ Bootie is what you're looking for. Same construction, but an over-the-shoe design. For a standard elastic-topped boot without the tread, the Elast-a-Boot™ brand is a basic boot available in a light-duty short-term wear version, or heavy-duty for the long haul.

- 860598 Treader™ Elastic-topped Disposable Boots with Treaded Sole – XL (40/box)
 860599 Treader™ Elastic-topped Disposable Boots with Treaded Sole – Jumbo (40/box)
 860592 Treader™ Bootie, Elastic-topped with Treaded Sole – Large (100/box)
 860594 Treader™ Bootie, Elastic-topped with Treaded Sole – XL (100/box)
 860596 Treader™ Bootie, Elastic-topped with Treaded Sole – Jumbo (100/box)
 860505 Elast-a-Boot™ Elastic-topped Disposable Boots, Light-duty – 3ml (50/pk)
 860506 Elast-a-Boot™ Elastic-topped Disposable Boots, Heavy-duty (50/pk)

DISPOSABLE BOOTS – TIE-TOP VERSIONS

For the tie-top style of disposable boot, we carry the ITSI Select™ boots and Knot-A-Boots™. Both styles are a clear polyethylene boot with perforated top edge for tearing and tying around the leg. The ITSI Select™ boots are available in either a 4 mil or heavier duty 6 mil option. The ITSI Select™ boots are an XL size, designed to fit over shoe sizes up to men's 12. The Knot-A-Boots™ are available in Standard (up to men's size 10), XL (up to size 12), and Jumbo (up to size 16).

- 860565 ITSI Select™ Disposable Boots with Tie-top, 4 mil – XL (50/box)
 860568 ITSI Select™ Disposable Boots with Tie-top, 6 mil – XL (50/box)
 860575 Knot-A-Boot™ Disposable Boots with Tie-top, 1.75 mil – Standard (100/box)
 860582 Knot-A-Boot™ Disposable Boots with Tie-top, 3 mil – Standard (100/box)
 860585 Knot-A-Boot™ Disposable Boots with Tie-top, 4 mil – Standard (50/box)
 860586 Knot-A-Boot™ Disposable Boots with Tie-top, 6 mil – Standard (50/box)
 860595 Knot-A-Boot™ Disposable Boots with Tie-top, 4 mil – Jumbo (50/box)



706520



026980

Graduated semen
dispensing bottles are also
handy for the temporary
storage of measured
amounts of prepared
semen extender

161100



026964



997652



500606

Incubators are handy for keeping
many collection and insemination
items warmed - from semen
extenders to AV liners & bottles
and disposables. Consistency
through preparation and collection
translates to preferential results!



MINERAL OIL - GLYCERIN - ULTRASOUND GEL

Mineral Oil (*026980) and Glycerin U.S.P. (*026964) are also used for their lubricating properties - more commonly in their capacities as laxatives or for lubricating the intestinal tracts of animals. Ultrasound Gel needs little further explanation. It is used in conjunction with ultrasound machines as a liquid medium to aid the machine in the transmittal of ultrasound waves.

- 026964 Glycerin U.S.P. - 1 gal (each)
026980 Mineral Oil [95 viscosity] - 1 gal (each)*
997652 Ultrasound Gel - 5 liter (each)

DISPENSING BOTTLES

Semen Dispensing Bottles (*161100, *161105) are an ultra-soft, ultra-pliable graduated 85ml bottle/cap assembly. The screw-on cap has a twist-off tip that is designed to fit insemination tubes (either drilled or adapter tip). The tip can also be turned and used as a sealing cap. These bottles are available with any of five cap colors. Great for storing, shipping or dispensing semen or medications for infusion. If you like to purchase lubricants in gallon jugs, but don't want to haul the full gallon around with you, try our 8 oz Plastic Bottle with Flip Cap (*706520). Handy for carrying around lube, cleaning solutions, or similar liquids.

- 161100 Semen Dispensing Bottle w/Twist-off Cap, Round - 85 ml graduated (10/pk)
161105 Semen Dispensing Bottle w/Twist-off Cap, Square - 85 ml graduated (10/pk)
706520 Bottle w/Flip Cap - 8 oz (each)

LAB INCUBATORS (QUINCY)

This is a great countertop incubator for warming or maintaining extender, warming tubes/bottles or any similar breeding supplies or equipment. This unit has a tinted glass door, adjustable wire rack shelving and temperature adjustment up to 143°F (62°C). Includes a non-toxic spirit thermometer and instruction manual. Plugs into any standard wall outlet (U.S.).

- 500606 Quincy Lab 12-140 Incubator, 220w [ID 18"x16"x12"/2 ft]
500604 Quincy Lab 49872 Incubator, 220w [ID 12"x10"x10"/0.7 ft]

Thermometers can be found on page 31 of this catalog.

SEMEN STORAGE UNITS

These insulated powered storage units are designed to store/maintain semen doses at consistent, proper temperatures. Refrigerator-like in appearance, they have the ability to warm or cool as needed with built-in refrigeration and heating along with a circulation fan to maintain consistent temperature range from top to bottom. Interior light (door operated) and exterior digital temperature readout.

- 989120 Semen Storage Unit (110V A/C), 1.7 ft³ w/Digital Display (each)
989140 Semen Storage Unit (110V A/C), 4.7 ft³ w/Digital Display (each)
989117 Semen Storage Unit (110V A/C), 17 ft³ w/Digital Display (each)

Each of these semen storage
units must be crated for
shipping purposes. Please
call for current crate fee.



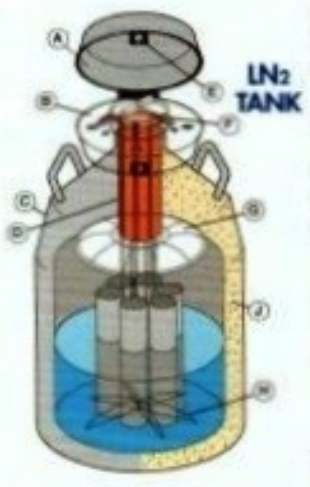
989120



999117



MVE®/Chart Tanks



- A Durable, tamper-proof lid design
- B Easy maintenance lid design
- C Superior strength, lightweight aluminum construction
- D High strength neck tube reduces liquid nitrogen loss
- E Locking tab
- F Color-coded canister/lid numbering system
- G Advanced Chemical Vacuum Retention System - designed for superior vacuum performance over the life of the product
- H Spider design - for easy retrieval and insertion of product canisters
- J Insulation - MVE's advanced insulation system provides maximum thermal performance

MVE
Five Year Vacuum Warranty

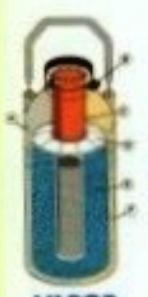
Looking for a specialty tank that you don't see here?
Call our offices for information on additional tanks or accessories and for price quotes.
The listing here is of our most popular models.



LIQUID NITROGEN STORAGE TANKS

Liquid nitrogen storage tanks used for cryopreservation of semen and embryos. These tanks are of sturdy aluminum and steel construction and come in a variety of sizes and capacities. Within these tanks are canisters designed to hold the tank's payload, whether straws or cryovials. See the accompanying charts for tank specifications - including static holding time, capacities, dimensions, etc.).

- 220303 MVE SC3/3 - 3 Liter Liquid Nitrogen Storage Tank* (6 canisters)
- 221020 MVE Signature XC-20 - 20 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 222020 MVE SC 20/20 - 20 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 223418 MVE XC 34/18 - 34 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 224706 MVE XC 47/11-6 - 47 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 224710 MVE XC 47/11-10 - 47 Liter Liquid Nitrogen Storage Tank (10 canisters)
- 225024 Worthington Industries AI24-11 - 24 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 225034 Worthington Industries HC/34 - 34 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 225040 Worthington Industries VHC/35 - 35 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 225038 Worthington Industries VHC/38 - 38 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 227003 Golden Phoenix YDS-3 - 3 Liter Liquid Nitrogen Storage Tank (3 mini canisters)
- 227006 Golden Phoenix YDS-6 - 6 Liter Liquid Nitrogen Storage Tank (6 mini canisters)
- 227010 Golden Phoenix YDS-10 - 10 Liter Liquid Nitrogen Storage Tank (6 canisters)
- 227020 Golden Phoenix YDS-20 - 20 Liter Liquid Nitrogen Storage Tank (6 canisters)



VAPOR SHIPPER

- A Lightweight aluminum design reduces shipping costs
 - B All models come with locking tab for shipment
 - C Neck Tube - High strength neck tube reduces liquid nitrogen loss
 - D Advanced Chemical Vacuum Retention System provides superior vacuum performance
 - E Superior hydrophobic absorbent - easy to decontaminate - repels moisture and humidity while maintaining a -196°C chamber environment
 - F Insulation - MVE's advanced insulation system provides maximum thermal performance
- Three Year Vacuum Warranty

LIQUID NITROGEN DRY SHIPPER TANKS (VAPOR SHIPPERS)

Dry shipper tanks are designed for the temporary holding or shipping of cryopreserved semen or embryos. They are identified as 'dry' or 'vapor' shippers because they operate with a charge of liquid nitrogen which supercools the interior cell - there isn't any actual 'liquid' in the tank during operation. By charging the tank with liquid nitrogen rather than having it be full with the liquid itself, these shippers can be transported by most major shipping companies without specialized hazardous material shipping parameters (and the accompanying charges that go along with them). These tanks use a porous core that when charged with added LN2 will hold the cryopreservation charge when the excess LN2 is then poured back out. The vaporous charge lasts for several days. They have a single central canister for carrying the tank's payload, whether straws or cryovials. See the accompanying charts on page 48 for tank specifications - including static holding time, capacities, dimensions, etc. If you're looking for a particular tank or replacement part that you don't see here, give us a call.



220425

When choosing a dry/vapor shipper, the two trade-off factors are capacity and duration of operation. The larger capacity shippers use a larger canister and have a larger neck opening. This translates to a shorter duration of operation. Be sure to allow for proper preparation time when getting ready to ship with a vapor shipper. Read the important information on page 49 regarding the use of shipping protectors with any vapor/dry shipper tank. Shipper tanks require the use of an outer protector suited for the type of shipper being used.



229719

- 220425 MVE SC 4/2V - 4 Liter, 2 Week Duration Dry Shipper Tank (single canister)
- 220435 MVE SC 4/3V - 4 Liter, 3 Week Duration Dry Shipper Tank (single canister)
- 220540 WI CX100 - 3 Liter, 2.5 Week Duration Dry Shipper Tank (single canister)
- 229719 MVE Vapor Tank Shipping Protector (Mushroom) - For 4/2V or 4/3V
- 220541 WI Vapor Tank Shipping Protector (Lightweight) - For CX100

*Working duration for shipping tanks is based on optimal care during preparation and shipping. Improper charging, tipping, or frequent neck plug removal will reduce working duration of all dry/vapor shippers.

Worthington® Industries Tanks



LIQUID NITROGEN ACCESSORIES / TANK COMPONENTS

This is a listing of some of the 'extras' that can come in handy for anyone doing work involving liquid nitrogen tank storage, filling, or maintenance. Replacement parts, accessories, and safety equipment will keep your operation running smoothly.

The Liquid Nitrogen Measuring Stick (*220033, *220035) is a plastic composite graduated stick for checking LN2 levels in tanks. The white lettering on a black background makes taking a reading simple. An inexpensive and vital accessory for anyone storing semen or embryos! Use Cryo-Gloves (*220040) to keep your hands and forearms protected during the handling/filling of liquid nitrogen tanks and shippers. These specialized gloves are available in mid-arm or elbow lengths and in two sizes. If you're looking for an easier way to move around large/heavy liquid nitrogen tanks, consider a Roller Base. The Roller Base is a low-profile base on a set of five omnidirectional casters which allow an operator to wheel the tank easily on smooth surface flooring. Please specify tank size when ordering.

We carry many replacement parts for our tanks and shippers. Breaking neck plugs or canister handles – while regrettable – happens on occasion. These are easy to replace and far less expensive than replacing an entire tank! Give us a call with your model number or canister or neck plug size and we'll find the replacement part you'll need. The most popular requests are listed here.

- 220033 Measuring Stick for Liquid Nitrogen Storage Tank – 50 cm/19 inch (each)
- 220035 Measuring Stick for Liquid Nitrogen Storage Tank – 91 cm/36 inch (each)
- 220017 Cryo-Gloves, Mid-arm Length – Small (pair)
- 220019 Cryo-Gloves, Mid-arm Length – Medium (pair)
- 337403 Roller Base for XC 34/18 Liquid Nitrogen Storage Tank – 5 casters (each)
- 334711 Roller Base for XC 34/18 Liquid Nitrogen Storage Tank – 5 casters (each)
- 366783 Roller Base for WI VHC/35 - 38 Liquid Nitrogen Storage Tank – 5 casters (each)

- 220455 Metal Canister for MVE SC 4/2V Dry Shipper (each)
- 220465 Metal Canister for MVE SC 20/20 LN2 Tank (each)
- 220466 Metal Canister for MVE Millennium XC 20 LN2 Tank (each)
- 220468 Metal Canister for MVE XC 34/18 LN2 Tank (each)
- 220470 Metal Canister for MVE 47/11-6 LN2 Tank (each)
- 220472 Metal Canister for MVE 47/11-10 LN2 Tank (each)
- 225041 Metal Canister for WI HC/34 LN2 Tank (each)
- 225042 Metal Canister for WI HC/35 LN2 Tank (each)
- 225048 Metal Canister for WI VHC/38 LN2 Tank (each)
- 220544 Metal Canister for WI CX100 Dry Shipper (each)

- 220457 Neck Plug for MVE SC 4/2V Dry Shipper (each)
- 220459 Neck Plug for MVE SC 4/3V Dry Shipper (each)
- 220463 Neck Plug for MVE SC 20/20, 33/26, 36/32 LN2 Tanks (each)
- 220464 Neck Plug for MVE Millennium XC 20 LN2 Tank (each)
- 220120 Neck Plug for MVE 47/11-10 LN2 Tank (each)
- 220536 Neck Plug for WI VHC/35 LN2 Tank (each)
- 225088 Neck Plug for WI VHC/38 LN2 Tank (each)
- 220545 Neck Plug for WI CX100 Dry Shipper (each)
- 220440 Relief Valve Cover for LN2 Tank [Black Cap] (each)



220459



220540



220035

220033




220466

220468

LIQUID NITROGEN TANKS

Dimensions and Specifications

 MVE Liquid N Tanks

 WI Liquid N Tanks

 Vapor Shippers

Tank ID		MVE SC3/3*	SIGNAT. XC/20	MVE SC20/20	MVE XC34/18	MVE 47/11-6	MVE 47/11-10
LN ₂ Capacity (Liters)		3	20.5	20.5	34	47	47
Static Evap. Rate (L/day)		0.12	0.09	0.09	0.18	0.39	0.39
Norm. Working duration (days)		19	140	142	123	76	76
Neck Opening:	inches	2	2.18	2	3.5	5	5
	mm	51	55.4	51	89	127	127
Overall Height:	inches	16	25.7	25.7	26.6	26.5	26.5
	mm	406	652	652	675	673	673
Outside Diameter:	inches	8.7	14.5	14.5	18.2	20	20
	mm	222	368	368	464	508	508
Weight Empty:	Lbs (Kg)	8 (3.6)	26 (11.8)	26 (11.8)	34 (15.4)	36 (16.4)	36 (16.4)
Weight Full:	Lbs (Kg)	14.4 (6.5)	62.5 (28.3)	62.5 (28.3)	96 (43.5)	120.4 (54.6)	120.4 (54.6)
Number of Canisters		6	6	6	6	6	10
Canister Height:	inches	5	11	11	11	11	11
	mm	127	279	279	279	279	279
Canist. Inner Diam:	inches	1.5	1.65	1.5	2.81	4	2.81
	mm	38	41.9	38	71	102	71
Capac., 1/2cc straws (10/cane)		-	780	540	2,100	4,500	3,500
Cap., 1/2cc straws (1 level Bulk)		732	1,122	780	3,000	6,216	5,000
Cap., 1.2ml & 2ml vials (5/cane)		-	210	150	630	1,320	1,050

*This tank also fits within the vapor shipper 'mushroom' protector for transport.
CAUTION: LN₂ 'wet' tanks should only be transported by the owner or licensed carrier.

Normal working duration is adversely affected by frequent opening of the tank. The duration is based on leaving the tank contents alone and leaving the tank static/undisturbed.

Vapor Shipper Tanks

Tank ID		WI AI24-11	WI HC34	WI VHC35	WI VHC38	MVE SC 4/2V	MVE SC 4/3V	WI CX100
LN ₂ Capacity (Liters)		24	34	35	38	3.6	4.3	4.1
Static Evap. Rate (L/day)		0.11	0.17	0.27	0.31	0.26	0.2	0.19
Norm. Working duration (days)		137	125	81	75	14	21	21
Neck Opening:	inches	2.38	3.6	4.7	5.0	2.75	2	2
	mm	60.4	91	119	127	70	51	51
Overall Height:	inches	25.8	26.31	26.8	26.8	18.4	19.4	18.4
	mm	655	668	681	681	468	492	467
Outside Diameter:	inches	15.6	18.8	18.8	18.8	8.7	8.7	9.2
	mm	396	478	478	478	222	222	234
Weight Empty:	Lbs (Kg)	26.2 (12)	35.4 (16.1)	37.9 (17.2)	38 (17.3)	11 (5)	13 (5.9)	11.7 (5.3)
Weight Full:	Lbs (Kg)	69 (31.3)	95.9 (43.6)	101 (45.5)	105 (48)	18 (8.1)	20.6 (9.3)	19 (8.6)
Number of Canisters		6	6	6	6	1	1	1
Canister Height:	inches	11	11	11	11	11	11	11
	mm	279	279	279	279	279	279	279
Canist. Inner Diam:	inches	1.89	2.75	3.7	4.13	2.62	1.81	2.62
	mm	48	70	94	105	67	46	67
Capac., 1/2cc straws (10/cane)		960	1,850	3,000	4,500	280	120	280
Cap., 1/2cc straws (1 level Bulk)		1,404	2,900	4,950	5,700	440	210	440
Cap., 1.2ml & 2ml vials (5/cane)		260	570	1,050	1,260	95	40	85

These dimensions are for the vapor shipper tanks themselves. When calculating shipping weight and dimensions, do not forget the outer shipping protector mushroom.

Trying to decide which tank is the best to suit your needs?

Take these factors into account to make your decision easier:

As a general rule of thumb, the larger the neck opening of the tank (and canister diameter), the higher the liquid nitrogen evaporation rate.

So, if it's longer-term storage you're wanting with little anticipated activity, choose a tank with a smaller neck opening (2.25 inches or less). Similarly, if you're planning on being in and out of the tank to add and remove straws frequently, and ease-of-access is more important than working duration, the larger neck opening and larger canisters would be your best option.

A mid-size tank can be easier to manage than a smaller-size tank due to storage duration times. The cost of a mid-size tank compared to a small tank is extremely comparable, and the mid-size tank will allow for future expansion of straw inventory, if necessary.

Who will be using the tank the most often? Large tanks (34 to 47 liter) can weigh considerably more than a mid-size tank when full (20L tank = 60 lbs, 47L tank = 120 lbs).

Looking to keep your tank in top operating order? Follow these simple tips and you'll maximize the life of your tank and components and keep maintenance costs down:

1. Be deliberate and careful when removing and replacing the neck plug. Pull it straight up using both hands and replace it straight down. Excess edge wear around the circumference and canister rods of the neck plug is a leading cause in excess liquid nitrogen evaporation. The neck plug core is one of the more fragile components of the tank – be careful with it!
2. Handle the tank as little as possible. Excess moving and jostling of the tank vaporizes the liquid nitrogen faster, resulting in more frequent refills. Additionally, moving the tank around often increases the likelihood of denting it. Dents in the tank damage the vacuum barrier within the tank, which is one of the key factors for proper insulation. Dented tanks won't hold nearly as long as new/non-dented tanks. With the larger-size tanks, investing in a rollerbase of some sort can aid in both limiting excess jostling and preventing dents.
3. Label your tank contents well. A good labeling system cuts the amount of activity and time you spend with the neck plug out of the tank, maximizing the useful life of your liquid nitrogen.

EMBRYO FREEZING SYSTEMS

The North Embryo Freezer Unit (*226001, *226002) is a freezer designed to be used with your existing LN2 tank as the freezing source. The metal core block with straw inserts fits onto the neck opening of a tank and uses the vapors to freeze embryos at adjustable height levels. Can be used with or without isopropyl alcohol. Additional equipment needed includes a digital thermometer for monitoring temperatures, gloves, timer and tweezers. Specify small or large, depending on your tank's neck opening. For powered freezing systems, we carry the CryoLogic® CL3300 and CL5500 Freezer/Control Units (with case). For details, freezer specifications and accessories, please call our offices.

- 226001 Dr. North Embryo Freezer Unit for LN2 Tank – Small Diam. (each)
- 226002 Dr. North Embryo Freezer Unit for LN2 Tank – Large Diam. (each)
- 226012 Powered Embryo Freezer – Cryologic® CL3300 [Freezer & Case] (each)
- 226014 Powered Embryo Freezer – Cryologic® CL5500 [Freezer & Case] (each)

IMPORTANT!

When shipping a dry shipper tank, it will be necessary to ship it within an outer shipping protector. For MVE/Chart tanks, the Vapor Tank Shipping Protector (*229719) – otherwise known as a 'mushroom' due to its appearance – both protects the tank from shock and helps maintain the tank's orientation. For the Worthington CX100 Shipper, the Lightweight Shipping Protector (*220541) is the desired option. The cylindrical design and rounded top/coned top dictate that they be transported in an upright position. The round lid with handle also prevents objects from being stacked on top of the protector. The MVE mushroom protector is designed to accommodate either the MVE SC 4/2V or 4/3V. Constructed of shockproof outer plastic, foam padded inserts, stainless carrying handle and latching lid. The Worthington Protector has a zippered nylon outer shell with padded interior.

The North Freezer – a manual style straw freezing unit utilizing a liquid nitrogen tank as the freezing source.



226002



226014



226012



- Components:**
- A Outer Printed Corrugate Box
 - B Spun-fiber Biodegradable Insulator
 - C Phenolic Blocks 'a-b-c'
 - D ThermalShield™ Insulated Pouches (x2)



631220



Filled syringes or centrifuge tubes are loaded into the Thermal Shield™ pouch(es)

See page 39 for additional information on the Impact VIP™ Shipper.

Dimensions
Inner Chamber: 9"l x 6.5"W x 3"D
Outer Box: 14"l x 9"W x 7"D
 Inner chamber and ThermalShield™ pouches designed to accommodate fully-loaded (up to) 60cc syringes (plunger extended), Whirlpak™ bags, centrifuge tubes, semen bags, etc. UPS shipping weight (dimensional) equal to 10 lbs.

Shipper preparation and loading instructions are affixed to the inside flap of each shipper

The **IMPACT VIP Shipper™** has a design offering a desirable gradual cooling rate. The combination of insulation material, air barriers, and multi-unit phenolic blocks allows the user to set up the unit ideally for all ambient temperature conditions.

Performance, efficiency, size, and environmental friendliness.



EQUINE EXPRESS II™



631220

COOLED SEMEN SHIPPERS – DISPOSABLE

Disposable shipper units are a popular and inexpensive method of shipping fresh cooled semen. Eliminates the need for having a permanent or reusable shipper sent back to you by your client. We carry two standard models of disposable shippers. The basic design of the disposable shipper consists of an outer corrugate box, inner insulated liner system, a specimen holder, and some type of cool pack/packs. The Reproduction Resources manufactured unit is the Impact VIP Shipper™. The VIP Shipper™ gets its name from the Very Important Parcel you're sending. Extended research and development went into the engineering of the Impact VIP Shipper™. It is the most environmentally-friendly shipper available – aside from the cool packs and foil ThermalShield™ pouches, the rest of the shipper is biodegradable, including the outer box AND spun-fiber insulation barrier within it. The ThermalShield™ pouches used for holding the cooled semen allow shipments of either syringes, centrifuge tubes, or sealed bags of semen. You're not restricted to a certain size or style of syringe or tube. An additional advantage to the VIP Shipper™ is that in the two-pouch configuration, individual pouches can be removed without disturbing the second specimen. The VIP uses three small phenolic block freezing/cooling units to target desired cooled shipment temperatures depending on seasonal temperatures and geography. It is important to follow the simple setup specifications printed inside the front flap of each shipper. For details, comparison charts and general information, see page 39 of this catalog. The Equine Express II™ disposable shipper is designed for shipping up to (2) 50cc/60cc syringes. Like the VIP Shipper, the phenolic block freezing units hold their shape when freezing so there's no issue with oddly shaped gel-style freeze packs not fitting correctly. We also offer the components of the VIP Shipper™ and Equine Express II™ Shipper as individual items. The ThermalShield™ insulated pouches are a great way of shipping temperature-sensitive goods and come in a variety of dimensions. The phenolic block warm/cool shipper packs are also very handy for transport of hot or cold supplies either in these shippers or in your own box or cooler – and anyone who has re-used these disposable shippers* is aware that oftentimes they come back missing the phenolic freeze blocks. We also carry basic gel pack reusable freezer packs for general purpose applications.

- 988675 IMPACT VIP Shipper™ Disposable Cooled Semen Shipper (each)
- 631220 Equine Express II/Canine Express II™ Disposable Shipping Container (each)
- 988131 Phenolic Block Shipper Bar [Impact VIP Shipper™] (each)
- 988130 Phenolic Block Re-Freezer Brix™ – 30 oz [Equine Express II™] (each)
- 988108 Gel Pack, Reusable – 8 oz (each)
- 988112 Gel Pack, Reusable – 12 oz. (each)
- 170310 Thermal Shield™ Insulated Liner – 3"x 10" Pouch (each)

*Extreme heat or cold may extend or shorten this temperature-maintenance duration.

All-plastic 2-piece sterilized syringes of all sizes can be found on page 17 of this catalog.

*Impact VIP Shippers and Equine Express II™ shippers are designated by the manufacturers as single-use items. Repeated use is at the discretion of the customer and not endorsed by the seller.



50ml Replacement Centrifuge
Tubes can be found on
page 1 of this catalog

IMPACT SHIPPER BOXES – BASIC INSULATED

These shipper boxes utilize the same environmental friendliness of the Impact VIP Shipper™ system, but without the phenolic blocks or Thermal Shield™ envelopes. Great for basic cooled shipments, including refrigerated embryo transfer media, blood samples, and commonly used for swine cooled semen shipments. Fully biodegradable.

- 988650 Impact Shipper™ – 8" x 4" x 4" ID (each)
- 988655 Impact Shipper™ – 8" x 6" x 8" ID (each)
- 988660 Impact Shipper™ – 8" x 6" x 12" ID (each)
- 988665 Impact Shipper™ – 20" x 8" x 12" ID (each)

EQUITAINER™ RIGID SEMEN SHIPPER

If it's the ultimate container for durability, reliability, and long-life, then the Equitainer™ line from Hamilton Research Int'l. is the route for you. A durable outer shell, heavy-duty clasp and consistent temperature maintenance all translate to peace of mind in shipping cooled equine semen. There are two versions Equitainer™ setups, depending on your semen packaging preferences. The 'Cup-Style' isothermalizer is for those who prefer to ship extended samples in bottle liners or Whirl-Pak™ bags and utilizes ballast bags within a sterile cup during transportation. The 'Tube-Style' isothermalizer is for those who prefer to ship extended samples in 50ml centrifuge tubes (which fit directly into the isothermalizer unit). Both versions have the same size inner chamber and use the same freezer can units. See the specifications below for more information.

- 631240 Equitainer™ Shipping Unit – Cup-Style (each)
- 631245 Equitainer™ Shipping Unit – Tube-Style (each)
- 500582 Isothermalizer Unit for Equitainer™ – Tube-Style (each)
- 500583 Isothermalizer Unit for Equitainer™ – Cup-Style (no lid) (each)
- 500584 Isothermalizer Lid only, with Lead Shield (each)
- 500585 Equitainer™ Freeze Can Unit (each)
- 500586 Equitainer™ Ballast Bags (4 pcs)
- 500587 Equitainer™ Sterile Cups (each)

Setup instructions for
Equitainers are included
with each unit.

Model	Shipping Duration	Isothermalizer	Dimensions	Weight
631240 Equitainer™ Cup-Style	72 hrs	Cup w/Ballast Bags	17.5" x 10" x 10"	12 lbs
631245 Equitainer™ Tube-Style	72 hrs	Aluminum-sleeved for (2) 50ml Cent. Tubes	15.5" x 10" x 10"	12 lbs





AMIKACIN SULFATE & PENICILLIN G POTASSIUM
Each vial contains 0.2g Amikacin Sulfate & 200,000 units of K-Pen



102010

070050



103030

The Revolution and Kenney Formula stallion semen extenders are purchased most commonly in boxes of 10 units, as shown above. This is not required, though. If you only need a couple, we'll happily comply!



REVOLUTION™ BRAND STALLION SEMEN EXTENDERS

Revolution™ formula stallion extender is a great general-use sugar and milk-based extender formula. The extender arrives as two components – the foil packet of dry powdered extender mix and the premeasured bottle of sterilized water. The combined components produce 100ml (or 200ml) of extender. Revolution™ is available in multiple antibiotic options (and in each version including antibiotic, the antibiotic powder is mixed directly into the powdered extender formula, eliminating the necessity for an extra mixing step). Revolution™ with Amikacin & Potassium Penicillin (K-Pen) is the most popular version of this extender, but it is also available with Ticarcillin or without antibiotic. Revolution™ can be purchased as individual units, or commonly by the box of ten units. We also offer the Amikacin & K-Pen formula in a 200ml size and a Gentamycin sulfate powder in a 100 gram bottle.

- 102000 Revolution™ Formula Stallion Semen Extender – Without Antibiotics (100 ml)
- 102010 Revolution™ Formula Stallion Semen Extender – With Amikacin & Potassium Penicillin (100 ml)
- 102017 Revolution™ Formula Stallion Semen Extender – With Amikacin & Potassium Penicillin (200 ml)
- 102050 Revolution™ Formula Stallion Semen Extender – With Ticarcillin (100 ml)
- 102057 Revolution™ Formula Stallion Semen Extender – With Ticarcillin (200 ml)
- 102005 Revolution™ Formula Stallion Semen Extender – With Amikacin Only (100 ml)
- 070050 Amikacin Sulfate with Potassium Penicillin Extender Antibiotic (for 200 ml)
- 103090 Gentamycin Sulfate powder (100 gm bottle)

KENNEY™ FORMULA STALLION SEMEN EXTENDERS

Kenney™ formula stallion extender is a great general-use sugar and milk-based extender formula. The extender arrives as two components – the foil packet of dry powdered extender mix and the premeasured bottle of sterilized water. The combined components produce 100ml of extender. Kenney™ is available in multiple antibiotic options (and in each version including antibiotic, the antibiotic powder is mixed directly into the powdered extender formula, eliminating the necessity for an extra mixing step). Kenney™ with Amikacin & Potassium Penicillin (K-Pen) is the most popular version of this extender, but it is also available with Ticarcillin or without antibiotic. We also offer the Amikacin & K-Pen formula in a 200ml size.

- 103000 Kenney™ Formula Stallion Semen Extender – Without Antibiotics (100 ml)
- 103010 Kenney™ Formula Stallion Semen Extender – With Amikacin & Potassium Penicillin (100 ml)
- 103017 Kenney™ Formula Stallion Semen Extender – With Amikacin & Potassium Penicillin (200 ml)
- 103030 Kenney™ Formula Stallion Semen Extender – With Ticarcillin (100 ml)
- 070050 Amikacin Sulfate with Potassium Penicillin Extender Antibiotic (for 200 ml)

REPRODUCTION RESOURCES
reproductionresources.com

GENTAMYCIN SULFATE
Potency 700.0mg/mg
Prod. # 103090

Net wt. 100 gm
Made in USA

Looking for a viable stallion extended semen freezing protocol? Give us a call. We have instructions for setting up a freeze via the use of any of our available stallion chilled semen extenders.



VMD-Z Formula Extender



VMD-Z™ FORMULA STALLION SEMEN EXTENDER

Manufactured in Belgium, VMD-Z™ formula stallion extender has outstanding duration characteristics and is a great choice for 'difficult-to-ship' stallions. The extender arrives as two components – the foil packet of dry powdered extender mix and the premeasured bottle of sterilized water designed as a one step mix. VMD-Z™ is packaged in a 200ml size. Preparation instructions included with each order. Amikacin Sulfate with Potassium Penicillin is available in small bottles (for use with 200 ml equine extender). The VMD-Z™ is available with this accessory bottle as well. Most VMD-Z™ customers find that the formula 'as-is' without the added antibiotic offers the longest duration healthy spermatozoa results. Excellent shelf life (easily the full season) when still in its packaged state.

- 050696 VMD-Z™ Formula Stallion Semen Extender – Packet & Water, Complete (200 ml)
 050697 VMD-Z™ Formula Stallion Semen Extender – Packet & Water, PLUS Antibiotic (200 ml)
 050695 VMD-Z™ Formula Stallion Semen Extender – Packet only (for 200 ml)
 070050 Amikacin Sulfate with Potassium Penicillin Extender Antibiotic (for 200 ml)

INRA 96™ FORMULA STALLION SEMEN EXTENDER

INRA 96™ formula stallion extender is an excellent extender for both general use and especially 'difficult-to-ship' stallions. The INRA 96™ formula is premixed and ready-to-use. This extender has been popular and widely used for many years. INRA 96™ is available in a 200ml size.

- 105020 INRA 96™ Formula Stallion Semen Extender (200 ml)

CLEAR CENTRIFUGATION EXTENDER, CUSHIONS FLUID & GLYCEROL

The Centrifugation Extender (*103110) is used for preparing equine semen for freezing. The clear quality of this extender is advantageous over the common milk extenders because the pellet has a much higher visibility after spinning with the Equine-EXT™.

Glycerol (*106010) is a cryoprotectant used when freezing equine semen.

Cushions Fluid is a media used in the centrifugation of stallion semen to help protect the spermatozoa during the separation of the sperm-rich fraction and gel fraction.

- 103110 Equine-EXT™ Centrifugation Extender – Clear (100 ml)
 106010 Glycerol (10 ml) (each)
 13580/0001 Cushions Fluid - For centrifugation (100 ml)

EQUINE EXTENDER RATIOS - BASIC

For shippable concentrations, target a concentration of 30-50 MILLION SPERM CELLS PER ML.

Dilution with extender depends on the original concentration (determined by a manual count, spectrophotometer such as the DVM RapidTest II™, Nucleocounter®, SQS Pro®, CASA, or similar counting device) to determine the quantity/ratio of extender to add.

Minimum dilution is 3:1 to make sure enough sustaining extender is mixed with the semen to keep it alive. With high semen concentrations, this dilution ratio can be as high as 10:1 or 11:1 extender to semen. With low semen concentrations, centrifuging the semen first may be necessary to concentrate the volume.



106010



13580/0001

Centrifuge Tubes	..... 1
Semen Analysis	..... 3,4
Straws, Filling,	
Labeling	..... 5-8
Freezing, Storage	..... 9
Syringes,	
Adapters	..... 17
Beakers, Grad.	
Cylinders (mixing)	..... 24
Thawing	..... 30
Thermometers,	
Tweezers	..... 31
Microscopes	..... 32
Centrifuges	..... 33
Incubators,	
Semen bottles	..... 45



631020



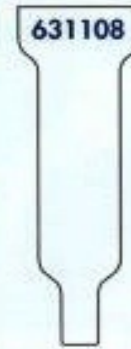
631000



631105



631106



631108



631107



631021

24"
tubular section
31"
including flared
end section

631024



631030



Each of our collection bottle options has volume graduation marks printed on the outside.

635102



635100



635550



635110



631029



It's all in the shape... Disposable A.V. Liners are most commonly found in two variations - Colorado Model and Missouri Model. These plastic tubular liners are shaped to fit their accompanying style of A.V. The Colorado version has a centered outlet port, the Missouri version has an offset outlet port. Both blue and clear serve the same functions. The poly construction/feel is slightly different, and we carry both to suit all preferences! These are designed to fit within all lengths of stallion artificial vaginas.

We carry a wide array of disposable collection supplies to meet the varied needs of equine breeders across the globe. If you don't see it here, or are interested in a custom combination of components - call us and we'll find your solution!

DISPOSABLE SEMEN COLLECTION KITS - LINER, BOTTLE, FILTER

Disposable equine semen collection kits are designed to be used with either Colorado or Missouri model A.V. setups. The disposable kit simplifies collection and cleaning of the A.V. in a complete, ready-to-use system. The setups include a fitted disposable poly A.V. liner (special templates for either CO or MO style A.V.'s), a collection bottle or baby bottle (depending on the brand), a semen gel filter within the bottle and a securing cap ring holding the assembly together. The kits are fully assembled. These kits work with all lengths of A.V.'s.

Variations of the kits are as follows:
The RR collection kits are available with either blue or clear A.V. liners. These collection bottles are translucent graduated bottles with a volume of 350ml (635100). The disposable A.V. liner shape is designed for either Colorado-style, with a centered bottle outlet, or for Missouri-style, with a side-offset bottle outlet. The gel filter is the popular Semen Filter Sock (635550). The EBS All-In-One kit utilizes a 240ml clear graduated bottle with volume modeled after a baby bottle and cap diameter of a standard collection bottle. This kit includes a clear satin-like EBS A.V. liner and a velcro tab to help hold the assembly in place within an insulated A.V. cone (500520). The EBS All-In-One kit is available in standard form with the EBS gel filter or with the nylon mesh gel filter (631029). An EBS inner bottle liner is also part of the assembly. These components are also available separately.

- 631000 Collection Kit, Colorado Model [Blue Liner, Bottle, Filter] (5/pk)
- 631001 Collection Kit, Colorado Model [Clear Liner, Bottle, Filter] (5/pk)
- 631002 Collection Kit, Missouri Model [Blue Liner, Bottle, Filter] - For 16" A.V. only (5/pk)
- 631003 Collection Kit, Missouri Model [Clear Liner, Bottle, Filter] - For 16" or 22" A.V.'s (5/pk)
- 631019 EBS All-In-One Collection Kit, Colorado Model [Clear Liner, Bottle, Nylon Mesh Filter] (5/pk)
- 631020 EBS All-In-One Collection Kit, Colorado Model [Clear Liner, Bottle, Stdrd Gel Filter] (5/pk)

DISPOSABLE SEMEN COLLECTION COMPONENTS

These are the 'a la carte' items that make up the disposable collection kits. Many breeders like to assemble their own kits, mix and match components, or reuse certain components, so they'll get their supplies separately. The products below range from filters to liners to bottles.

- 631021 EBS Clear Disposable A.V. Liner only - CO Model (each)
- 631022 EBS Clear Disposable Collection Bottle, Graduated - 240ml (each)
- 631025 EBS Collection Bottle Gel Filter - 2.5"x 6.6" (50/pk)
- 631027 EBS Collection Bottle Gel Filter - 2.5"x 6.6" (200/pk)
- 631030 EBS Collection Bottle w/Coupling Cap & Velcro™ (each)
- 631024 EBS Inner Bottle Liners (each)
- 631105 RR Disposable A.V. Liner only (blue) - CO Model (10/pk)
- 631106 RR Disposable A.V. Liner only for 16" A.V. (blue) - MO Model (10/pk)
- 631107 RR Disposable A.V. Liner only for 16" or 22" A.V. (clear) - MO Model (10/pk)
- 631108 RR Disposable A.V. Liner only for 16" or 22" A.V. (clear) - CO Model (10/pk)
- 635100 RR Disposable Collection Bottle - 350ml (each)
- 631104 RR Disposable Collection Bottle w/Coupling Cap & Gel Filter - 350ml (each)
- 635102 Disposable Collection Bottle w/45mm opening - 300ml (each)
- 635110 UltraFlow™ Semen Gel Filters - 2.5"x 6.6" (10/pk)
- 635550 Semen Filter Sock Gel Filters (w/amber stripe) - 2.25" x 5.5" (100/pk)
- 631029 Nylon Mesh Gel Filter - 2.25"x 3" [fits 45mm opening bottles] (each)

Both the EBS and RR collection bottles have a 38mm (1.5") opening.



WHIRL-PAK™ BAGS

These Nasco® signature bags are commonly used for shipping semen (for those who prefer not to use syringes or centrifuge tubes). The Whirl-Pak™ bag is a clear poly bag with a unique wire top that allows you to close and seal the bag by 'whirling' it around itself like a jumprope. The bags have an opaque white area for writing labels to identify contents.

- 486303 Whirl-Pak™ Bag, Write-on - 2 oz (10/pk)
- 486300 Whirl-Pak™ Bag, Write-on - 4 oz (10/pk)
- 486307 Whirl-Pak™ Bag, Write-on - 7 oz (10/pk)
- 486319 Whirl-Pak™ Bag, Write-on - 18 oz (10/pk)

EQUINE A.V. SUPPORT SUPPLIES

Rubber bands. Big ones. They're used to help hold the water jacket liners or internal tapered liners to the ends of a Colorado style AV. They're thick and durable, but they are rubber bands and eventually require replacement. If you do not use disposable collection kits and collect with the latex liners directly, you'll need an AV-to-Bottle Adapter as a fitting between the latex A.V./liner and the collection or baby bottle. The options we offer (depending on the type of bottle used) are designed to have the latex outlet of the A.V. stretch over the end and are threaded to screw directly to a baby bottle (*632300) or various collection bottles (depending on which style you use). The A.V. Bottle Protective Padded Cone (*500520) is an option that fits over the entire collection bottle assembly for both holding the bottle in place and maintaining temperature of the collection. This padded cone simply slips over the collection bottle and is pulled over the end of the A.V. Available in Colorado or Missouri AV styles.

The Bottle Clamp (*631035) is used by some to connect the outlet of the AV bladder to a collection bottle instead of using a disposable kit or A.V. to bottle adapter.

The E-Z A.V. Filler (*617140) for Missouri style artificial vagina bladders is a purpose-built hose with standard female water bib threading on one end (garden-hose diameter and threading) and a specialized trigger-lock chuck at the opposite end that fits over the Missouri A.V. filling nipple.

The A.V. Filler for CO Model A.V. (*617149) is a three foot tubing section with a rubber fitting on one end designed to push over the top of a faucet. Colorado A.V. tubes fill with an open cap, so this simple tubing requires no specialized fitting. For cleaning ease of the inside of a Missouri or Colorado latex artificial vagina, the A.V. brush is a handy tool. Loofah-style brush head cleans without being overly abrasive on the natural latex material. The wooden handle offers plenty of reach. A.V. Conditioning Solution (*632340) is for use within Missouri-style A.V. bladders. Maintains latex integrity and prevents the inner walls from sticking together when not in use/off season. Each bottle provides up to (4) uses/cycles. The Stallion Condom (*631650) is a device for collecting stallions without the used of a breeding mount. It is placed over the ready stallion and permits him to mount a mare in live cover. The large reservoir holds the ejaculate.

- 500403 Replacement Rubber Bands - 7" [for CO Model A.V.] (each)
- 632300 A.V. Bottle Adapter [A.V. to Baby Bottle] (each)
- 632305 A.V. Bottle Adapter [A.V. to RR/RP/EBS Collection Bottle] (each)
- 632307 A.V. Bottle Adapter [A.V. to ARS or Exodus Bottle - 45mm] (each)
- 500520 A.V. Bottle Protective Padded Cone - Colorado Style (each)
- 632240 A.V. Bottle Protective Padded Cone - Missouri Style (each)
- 631035 Bottle Clamp - 35mm (each)
- 617140 E-Z A.V. Filler - 40" [for MO Model A.V.] (each)
- 617149 A.V. Filler for CO Model A.V. - 36" [connects over faucet] (each)
- 632360 A.V. Brush (each)
- 632340 A.V. Conditioning Solution - 4 oz bottle (each)
- 631650 Stallion Condom, Latex - 12.75"L - 5.75" reservoir end width - 3.5" open end width (each)



632305



631650



632360



632340



631035



634042

Remember to exercise care when stretching any latex liner over an A.V. end! Fingernails are notoriously hard on latex liners.

TAKE CARE OF THOSE LATEX PRODUCTS!

Manufacturers recommend that latex liners be thoroughly cleaned prior to first use. Wash with warm water and detergent. Rinse off detergent. Next, allow liner to soak in hot tap water for an hour followed by rinsing with distilled water and a final rinse with 70% isopropyl alcohol. Allow to dry completely. Store in a cool dark environment in an unopened package for longest life of product.



632016



632116



500403



634051



634053



634059



632250



632270



Harvet® brand A.V. bladder outlet port (left)

Nasco® brand A.V. bladder outlet port (right)

ARTIFICIAL EQUINE VAGINAS

Artificial Equine Vaginas are constructed in two basic styles – Colorado Model and Missouri Model. We carry both styles. The shape and structure of the A.V. styles are the distinguishing characteristics.

Structure: The CO Model A.V. employs a rigid tube that is fitted with an inner latex liner and filled with warm water. The MO Model A.V. uses a warm water-filled latex bladder that is then used within a leather or nylon A.V. cover.

Shape: The CO Model A.V. is a symmetrical tube – latex or disposable liners have an outlet port in the center. The MO Model A.V. is a tube with an offset outlet port. This shape differential is important if you use disposable collection kits within your A.V. The disposable A.V. liner component of the kits is fitted for either CO or MO styles.

COLORADO MODEL Artificial Vagina

Our CO Model A.V. is of a special design that will permit use either within our EBS Breeding Mount or as a side-collection artificial vagina. The tube diameter, collapsible handle and latex liner rings are specially fit for the mount. The CO Model A.V. is available in lengths of 14", 16", 18" (standard), 22", or 25". This length is based on the rigid tube. The latex liners fit all sizes. Included with the complete A.V. purchase is (1) rigid tube with handle, end rings and filling ports, (1) latex water jacket liner, (1) latex tapered inner liner, (2) large latex liner securing rubber bands, (1) A.V. Protective Padded Cone (#500520), and (2) packs of disposable All-in-One collection kits (#631020).

MISSOURI MODEL Artificial Vagina

Our MO Model A.V. options include sizes of 16" and 22". This style of A.V. uses an independent water bladder that is then held within an A.V. outer cover. This latex bladder is filled via an 'air chuck' style filling port (#617140). The bladder has its own tapered offset exit port for fitting either a bottle with adapter or disposable collection kit. Commonly used with this style A.V. is either a leather cover with handle and buckle closures (#632270 - 16", #632272 - 22") or the nylon insulated cover with handle and Velcro™ closures (#632250 [22"] or #632255 [16"]). We offer two manufacturer's versions of MO Model A.V.s (Nasco® and HarVet®). Both are used the same and both accommodate the disposable collection kits or bottle adapters. To distinguish between the two, the HarVet® brand has a semi-rigid outlet port that holds its cylindrical shape when not in use. (see photo, above right) Note: If you do not plan on using disposable collection kits with your equine A.V.s, you will need a bottle adapter, collection bottle, and gel filter to collect a stallion with any of the artificial vagina variants.

Complete CO A.V. includes the following:

- (1) Rigid A.V. tube [14", 16", 18", 22" or 25"]
- (1) Water Jacket Liner/bladder
- (1) Tapered Inner Latex Liner
- (1) Padded collection bottle cone
- (2) Liner securing rubber bands
- (2) 5-pk EBS All-in-one disposable collection kits



Our Colorado A.V. tubes have folding handles so they can be used within the Breeding Mount or for side collections. Also seen here is the filling port and water release valve.

- 632016 A.V., Missouri Model (latex bladder), Nasco® w/out cover - 16" (each)
- 632116 A.V., Missouri Model (latex bladder), HarVet® w/out cover - 16" (each)
- 632022 A.V., Missouri Model (latex bladder), Nasco® w/out cover - 22" (each)
- 632122 A.V., Missouri Model (latex bladder), HarVet® w/out cover
- 632250 A.V. Cover, MO Model, Insulated - fits 16" (each)
- 632270 A.V. Cover, MO Model, Leather - fits 16" (each)
- 632272 A.V. Cover, MO Model, Leather - fits 22" (each)
- 634044 A.V., Colorado Model Complete Kit - 14" (each)
- 634045 A.V., Colorado Model Complete Kit - 16" (each)
- 634048 A.V., Colorado Model Complete Kit - 18" (each)
- 634050 A.V., Colorado Model Complete Kit - 22" (each)
- 634046 A.V., Colorado Model Complete Kit - 25" (each)
- 634051 Colorado A.V. Water Jacket Liner Only, latex (each)
- 634053 Colorado A.V. Bladder, Tubular w/Flared end, latex (each)
- 634055 Colorado A.V. Jacket, Tapered - latex (each)
- 634057 Colorado A.V. Jacket, Tapered - Extra Long 38", latex (each)
- 634059 Colorado A.V. Jacket, Tapered - Tubular w/Flared end - 22", latex (each)





998450

Not Your Ordinary Omega....

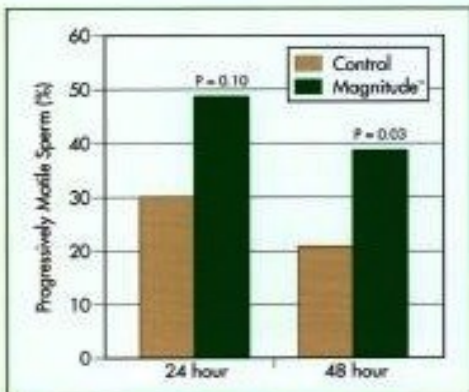
DHA (docosahexaenoic acid) is the key. The membranes of spermatazoa are composed primarily of DHA, and scientific studies verify that the marine-based omega-3 fatty acids in Magnitude™ improve the supply of DHA in stallions. This increases both the number of normal spermatazoa and their concentration in semen. Simply stated, DHA concentrations are crucial to proper sperm cell function. So when it comes to enhancing reproductive potential, all omegas are not created equal.

- A 78% increase in sperm concentration
- A 46% increase in daily sperm output
- A significant increase in sperm motility, even in semen cooled for 48 hours
- An increase in daily output of progressively motile sperm
- An increase in the percentage of morphologically normal sperm in fresh semen

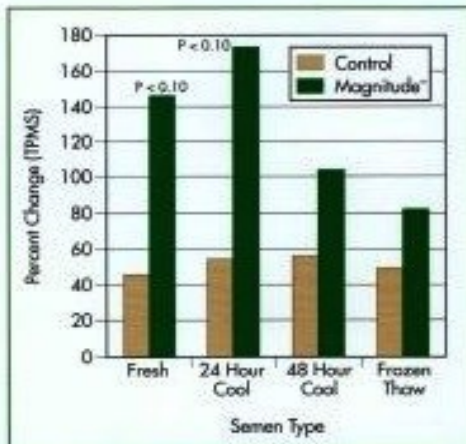
MAGNITUDE™ SPERM BOOSTING SUPPLEMENT

Unleash your stallion's breeding potential. Stallions making the transition from performer to producer require a new set of skills. While training can improve his mind and his muscles, it won't change his reproductive capability. United BioNutrition and Bioniche Animal Health have worked with leading universities to identify a specific balance of marine-based omega-3 fatty acids (specifically, DHA) that significantly improves a stallion's reproductive ability. Magnitude™ feed supplement is the result. It gives the stallion the potential of an increased supply of semen that's also more highly concentrated and viable in storage. It adds up to impressive results – especially for stallions with poor reproductive traits. For additional data including charts and references, contact our office.

998450 Magnitude™ Stallion Sperm Boosting Supplement - 20 lb (each)



This illustrates the change in progressively motile sperm after feeding Magnitude™ to stallions with less than 40% progressively motile sperm. Magnitude™ promotes an increased supply of viable semen after 24 and 48 hours of cooling and storage. - Texas A&M University



With Magnitude™, stallions experienced percentage increases in the quantity of total progressively motile sperm (TPMS) produced in fresh, cooled and frozen-thawed semen. - Colorado State Univ.

Magnitude™ customers often report that in addition to the reproduction benefits of this supplement, the joint health and mobility of their stallions had improved significantly, especially with older stallions. Some have kept them on Magnitude™ for this reason even after their reproduction roles had been retired.



636030



636035

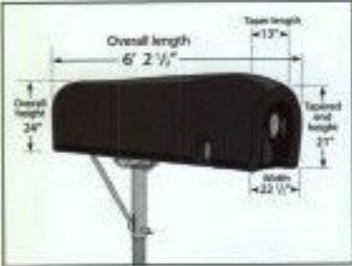


STALLION SHEATH CLEANING SUPPLIES

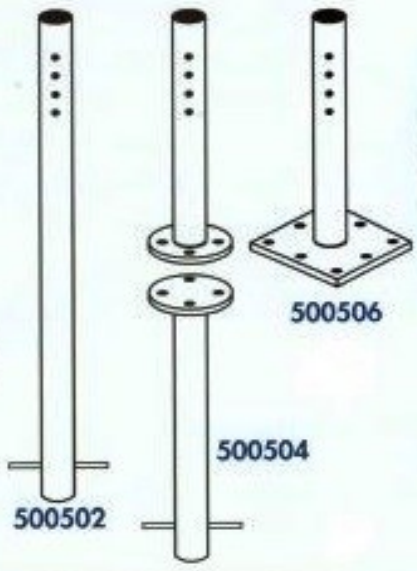
Bleached cotton is used for washing and prepping the stallion's penis prior to collection. The warm water-soaked cotton helps in cleaning away debris and also aids in stimulating the stallion prior to mounting. The cotton is packaged in a one pound roll. Bleached, non-sterilized. For a mild sheath cleaner solution, Excalibur™ Sheath Cleaner is designed to safely dissolve and clean smegma from the interior of the sheath area covering the stallion's penis. This non-irritating cleaner leaves no residue and speeds up the cleaning process and has been specially formulated for equine use. Directions for use are printed directly on each bottle.

- 636030 Cotton Roll, Bleached - 1 lb (each)
- 636035 Excalibur™ Stallion Sheath Cleaner - 16oz (each)

MAGNITUDE SUPPLEMENT / SHEATH CLEANING



This image of the interior of the mount (looking toward the A.V. holder at the mounting end) demonstrates the rugged powder-coat steel support frame of our patented mount.



EBS BREEDING MOUNT

The Equine Breeding Supply (EBS) Stallion Breeding Mount is the finest collection phantom in the industry. This patented mount is durable, adjustable, and with a trained stallion it can be a one-person operation! Our flexible design give the breeder options for collecting the stallion with either an A.V. built into the mount itself or via side collection. It's a mount that was designed by breeders for breeders, and with adjustments and enhancements over the years has been the premier mount on the market. The mount also includes a complete Colorado-style artificial equine vagina assembly with the liners and accessories in either 18", 22" (standard) or 25" sizes. For more information on the A.V. options, see the previous pages. The mount also includes an instructional DVD created by it's inventor, the late Dr. Jack Dyer. This video presentation demonstrates proper setup of the artificial vagina as well as collection of the stallion using the EBS Mount. When used properly, this mount is a highly effective and very safe method of collecting a stallion.

It's Rugged:

The support post options for the EBS Mount are manufactured from schedule #80 steel. This heavy-duty assembly is strong enough to support anything from a pony to an aggressive draft horse. The thick steel, strong welds and powdercoated finish will offer you many years of continued use and abuse. The standard covering fabric on the mount body itself is a ballistic rip-stop material that won't easily puncture or tear. The interior frame of the mount body is welded steel diamond grill mounted on a welded steel framework. The dense-cell foam padding between the frame and covering is designed not to crumble or collapse with age.

It's Versatile:

Collect any size stallion with one mount. With both height and angle adjustments you can set this mount up to collect stallions large and small. With our new built-in crank-style jack option, height adjustments are a one-person operation. No need for a separate floor jack. Collect the stallion via the built-in Colorado A.V., or put the optional removable padded door plug in (*500514) and collect a stallion 'hand-held' from the side with either the included Colorado-style A.V. or a Missouri-style. The three support pipe options (see below) also permit the installation of this mount in either a new or existing facility.

It's Amendable/Expandable:

Do you have a stallion that likes to hold on via a bit? Belt on the optional Stallion Leather Grab (*500511) and your horse can hold on and bite away. If you have an animal that grips tightly to the sides of the mount with his forelegs, chafing can occur. The optional Softside Fleece Cover (*500509) straps over the rear 2/3 of the mount to provide protection for inner knee area.

SUPPORT PIPE OPTIONS:

The EBS Mount uses a single support post for its operation. Since different breeding farms have different architecture and differing needs, we offer three styles of this support pipe base to make installation convenient for everyone. The support pipe is a separate component from the main mount for this reason. All support pipe options are constructed of schedule #80 steel.

Permanent Support Pipe (*500502) - This support pipe option is for the breeder that is setting up a new breeding station with the ability to pour a concrete base for the mount. This is a 'single-pipe' design, where once in place, the support pipe will stay assembled for the life of the mount with approximately 30" of its over 6 foot length extending above the concrete surface. The in-ground section also has a stabilizing bar to increase durability. The above ground portion has the pre-drilled holes to accommodate the main mount section and the entire post is powdercoated for long life.

Removable Support Pipe (*500504) - This is the most popular of the support pipe options. It is also designed for the breeder that is setting up a new breeding station with the ability to pour a concrete base for the mount. This is a 'dual-pipe' design. It is very much like the Permanent



Looking for an easy way to adjust the height on a breeding mount without extra lifting help? Our newest accessory to the patented mount is a crank-handle jack attached directly to the main post, making height adjustments a cinch! Effective with all variations of our support pipes. This jack is designed to work on all generations of EBS Breeding Mounts.

500514



500511



500509



Looking for a mount and you use only Missouri-style A.V.s and/or plan on side-collection only? We will build you a mount without the internal A.V. hardware with an enclosed front. Call our offices for details and pricing.

Support Pipe, but is constructed of two pieces that bolt together at ground level with a flange assembly. This allows removal of the upper section, so during off-season time, the mount can be removed completely. If the mount ever needs to be moved at a later time, a new 'in-ground' section can be purchased and no cutting would be required to remove the post. The in-ground section also has a stabilizing bar to increase durability. The above ground portion has the pre-drilled holes to accommodate the main mount section and the entire post is powdercoated for long life.

Concrete Mount Support Pipe (*500506) – This support pipe option is for the breeder that has an existing concrete floor that they need to mount the unit to. Sometimes it's just not feasible to pour concrete. This design uses an extra-wide 14" flange floor plate that can be secured to the concrete surface with (8) masonry bolts (bolts not included). This support pipe also has the pre-drilled holes to accommodate the main mount section and the entire post is powdercoated for long life. We offer these tailored-for-our-mount support pipes to make installation as painless as possible. If you have the ability to build your own support pipe structure for the EBS mount we'll give you the specs to make it work. Most find that purchasing a ready-to-install support pipe from us is the easiest, safest route. It is not required, however!

EBS MOUNT & ACCESSORIES

- 500501 Equine Breeding Supply Stallion Mount, Includes Complete Colorado A.V. (18", 22" or 25")
- 500502 EBS Breeding Mount Permanent Support Pipe, Schedule #80 Steel (1-piece assembly)
- 500504 EBS Breeding Mount Removable Support Pipe (2-piece assembly)
- 500505 EBS Breeding Mount Removable Support Pipe – Lower Section Only (1-piece assembly)
- 500506 EBS Breeding Mount Concrete Mount Support Pipe (1-piece assembly)
- 500200 EBS Mount Height Adjustment Jack, Side-crank - 5,000 lb capacity
- 500508 EBS Breeding Mount Replacement Ballistic Cover (each)
- 500509 EBS Breeding Mount Softside Fleece Cover (each)
- 500510 EBS Breeding Mount Outdoor Protective Cover (each)
- 500511 EBS Breeding Mount Stallion Leather Grab (each)
- 500514 EBS Breeding Mount Padded Door Plug [for A.V. Receptacle] (each)

Q: Do I have to collect a stallion with the built-in A.V. system?

A: It's convenient, but not necessary. By inserting the optional door plug you have the freedom of hand-held A.V. collection of a stallion with either a Colorado or Missouri model A.V.

Q: I've seen other breeding mounts with dual support posts. Is the EBS Breeding Mount strong enough with just one post?

A: Definitely. We use a 3.5" diameter schedule '80 steel support post. It's mounted to our framework with heavy-duty pins and welded brackets. No flimsy construction, here! With proper installation you can collect anything from a pony to a large draft horse on our mount. The single-post setup simply allows more freedom in adjustment of the mount.

Q: How hard is it to get started?

A: We offer three support post options to fit your breeding station setup. Included are position and dimension recommendations as well as an instructional DVD that demonstrates setup of the Colorado-style A.V. and actual collection of stallions using the EBS mount. In addition, since the mount is built on-site at our facility we can offer phone tech support if necessary and we warehouse the accessories used with the mount if you should ever need replacement items over the years.

Q: Can you really collect a stallion as a 'single person' operation?

A: Yes. Once a stallion is trained to be collected via breeding mount, our mount can be operated with just one person. With the built-in A.V. receptacle you don't need an extra person or two to manage the A.V. and guide the horse into position. Most stallions can be trained in just a few collection sessions. Release and removal of the A.V. after collection can be done in just seconds.

These are the most popular questions. If you have others, please don't hesitate to call us and ask them!

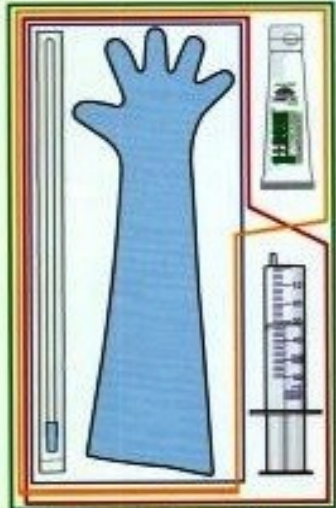
EBS BREEDING MOUNT FREQUENTLY ASKED QUESTIONS – AND ANSWERS!

Additional notes: EBS Breeding Mounts require shipment by truck. The mount is strapped to a shipping pallet, so the receiver must have the ability to retrieve a pallet from a truck trailer (i.e., skidloader, forks, etc.). Shipping weight, including support pipe and A.V. is approximately 380 lbs. Freight charges are the responsibility of the customer.

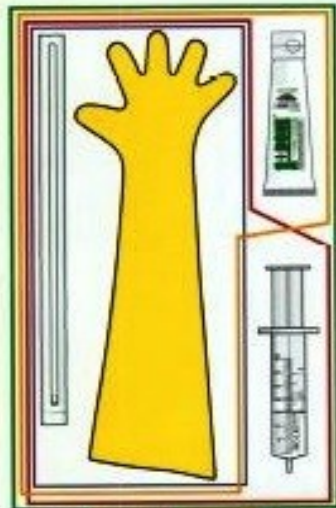
Our CO-style A.V. is the only type of artificial vagina that will work *within* the A.V. receptacle built into the mount. If choosing to side-collect a stallion (as opposed to the in-mount assembly) it is *imperative* that the padded door plug be used to prevent accidental penetration of the mount by the stallion's penis – as penetration of the mount without an A.V. or door plug in place in the receptacle may result in injury.



Breeding Mount shown as it is shipped.



638208 638209 638210 638350



638235 638230 638236 638231

Would you like a kit with the components of your choice? Not a problem! We'll gladly assemble personalized kits to suit your needs. Just give us a call!

EQUINE INSEMINATION KITS

Insemination kits for horses come in a variety of options/assemblies. They're put together to make a breeder's job more convenient by being able to order all of the disposables necessary for one breeding in a preassembled kit, rather than getting 'a pack of these and a box of those'. You're not limited to the kits you'll find in this list - the versions listed here are based on the most popular options. If you have specific preferences, we will gladly put together a kit to your specifications - with any of our individual components you prefer (such as an alternate syringe, alternate insemination tube, alternate glove, etc.). We'll then give your custom kit its own identification number so that we have record for subsequent orders. Most of the individual components you'll find in our kits are also individually wrapped and sterilized within the kit package, such as the insemination tubes, shoulder gloves, and syringes.

Items at left listed with an asterisk (*) are individually wrapped and sterilized within the pack.

- 638208 25" Tube w/Adapt*, Supersens. Glove* (each)
- 638209 25" Tube w/Adapt*, Supersens. Glove*, 50cc Syringe* (each)
- 638210 25" Tube w/Adapt*, Supersens. Glove*, 1-and-Done™ Lube (each)
- 638350 25" Tube w/Adapt*, Supersens. Glove*, 1-and-Done™ Lube, 50cc Syringe* (each)
- 638235 21" Drilled Tube*, Supersens. Yellow Glove* (each)
- 638230 21" Drilled Tube*, Supersens. Yellow Glove*, 35cc Syringe* (each)
- 638236 21" Drilled Tube*, Supersens. Yellow Glove*, 1-and-Done™ Lube (each)
- 638231 21" Drilled Tube*, Supersens. Yellow Glove*, 1-and-Done™ Lube, 35cc Syringe* (each)

DISPOSABLE EQUINE VAGINAL SPECULUMS & CULTURE SWABS/KITS

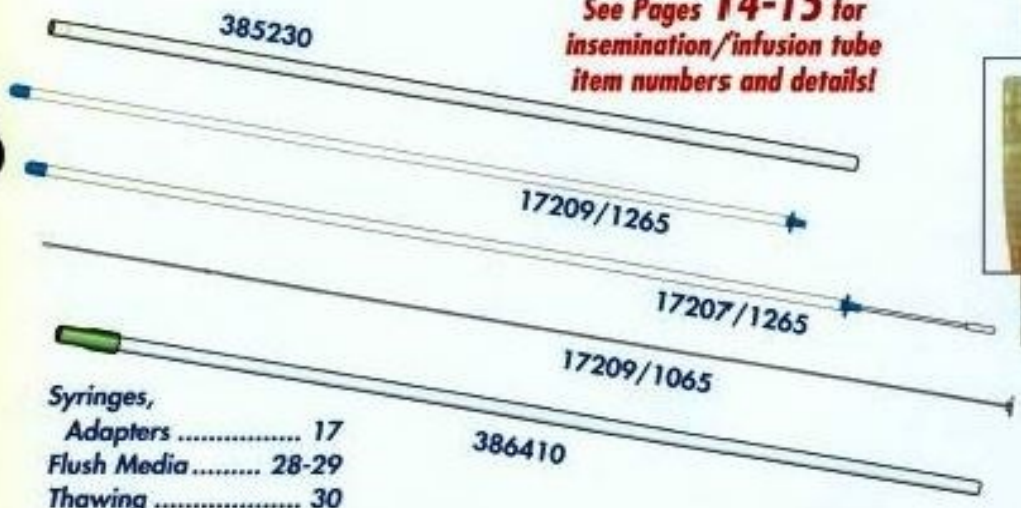
The Large Animal Vaginal Speculum ('636000) has dimensions of 17.75" long with a 1.3" outer diameter. The speculums have an extremely smooth surface and rolled insertion end for easy passage. These disposable cylindrical speculums are individually wrapped and sterilized and effective for use on any full-size horse (or cow). Available alone or together in a kit ('636005) with a 1 oz tube of 1-and-Done™ lubricant.

The Double-Guarded Culture Swab ('636101) is individually wrapped and sterilized. This 28" length swab design uses two levels of protection, so that upon insertion in the vagina, the outermost 'capped' tube protects the inner tube and swab from contaminants. The inner tube is then pushed through the perforated tip, and lastly, the cotton swab is extended to swab a sample. The swab is then retracted, the inner tube retracted, and the entire assembly removed from the animal. The inner tube and swab have a 6" breakaway section that allows placement in transport media while the swab stays protected. End caps are also included with the swab for this breakaway section. A proven design that maintains the integrity of your sample. Available with or without Ames™ transport media. The culture swab is also available in kit forms with ('636200) a 1 ounce tube of 1-and-Done™ lubricant and sterilized shoulder glove, or in a combo kit ('636205) with the speculum and a 1 ounce lube.

The Double-Guarded Cytology Brush ('637100) is based on the culture swab design, but instead of a swab head, this has a small cytology brush, so it will recover cell samples rather than just fluids.

- 636000 Large Animal Vaginal Speculum, Disposable, Indiv. Wrapped & Sterilized - 17.75" (each)
- 636005 Large Animal Vaginal Speculum Kit: Speculum plus 1-and-Done™ Lube (each)
- 636101 Culture Swab, Double guarded, Sterilized (each)
- 636102 Culture Swab, Double-guarded, Sterilized w/Ames™ Media (each)
- 637100 Cytology/Culture Brush, Double-guarded, Sterilized (each)
- 636200 Culture Swab Kit: Double-guarded Culture Swab*, 1-and-Done™ Lube, Shldr Glove* (each)
- 636205 Culture Swab/Speculum Kit: Dbl-guarded Culture Swab*, 1-and-Done™ Lube, Speculum* (each)

See Pages 14-15 for insemination/infusion tube item numbers and details!



- Syringes, Adapters 17
- Flush Media 28-29
- Thawing 30
- Incubators, Semen bottles 45



EQUINE FLUSHING CATHETERS

These catheters are designed for use in horses and therefore have large bores and long lengths. These silicone catheters can also be autoclaved. The catheters have multiple outlet ports at the tip and symmetrical inflation of the cuff around the centerline. All of the catheters are compatible with the step adapters of our flush tubing sets. For an extra long silicone catheter, we offer a 63-inch length version (*133412) with 100cc inflation cuff. The 36" stainless steel Stylet (*132437) is used for insertion of most of the catheters.

132810 Catheter, Equine Flushing, 28Fr x 100cc (31.5"/80cm) - Silicone (each)	9.3 mm	11.3 mm
133275 Catheter, Equine Flushing, 32Fr x 75cc (34"/86cm) - Silicone (each)	28 Fr	34 Fr
133775 Catheter, Equine Flushing, 37Fr x 75cc (36"/91cm) - Silicone (each)		
133412 Catheter, Equine Flushing, 34Fr x 100cc (63"/160cm) - Silicone (each)	10.7 mm	12.5 mm
133032 Stylet for Equine Flushing Catheters, [for 24 - 37Fr] - 34" (each)	32 Fr	37 Fr
132437 Stylet for Equine Flushing Catheters, [for 24 - 37Fr] - 36.5" (each)		

Measurements refer to the outside diameter; (shown here actual size)

EQUINE FLUSH TUBING & LAVAGE

Long vinyl tubing sets for equine uterine flushing/lavage and for connection to flushing catheters. The Single Line Equine Tubing Set (*134800) is a 48" length of vinyl tubing with spike for fluid bag on one end and a stepped adapter for fitting to a foley catheter on the other. A pinch-clamp controls flow rate. Gamma irradiated. The Uterine Flushing/Lavage Catheter (*134820) is a 60" vinyl tubing set designed for lavage/cavity washing of the vaginal or uterine area of a mare. This tubing set has a spike for flush bag on one end and a pinch clamp for flow control. The opposite end has (7) exit portholes along the final four inches of length (6 side ports, one on the tip). ETO sterilized. For embryo flushing, the Long Foley Y Junction Tubing Set (*704133) is the answer. This tubing set has two 60" high-flow tubing lines fitted to a Y connector with a foley catheter stepped adapter. One line has a spiked tip for use with a flushing solution bag, the second line would be connected to an embryo flushing filter. Both tubing lines of this set have color-coded flow control clamps. This is a disposable, gamma irradiated flush tubing set. The Simplex™ Single Line Tubing Set (*704139) is a 60" high-flow tube with a flow control clamp and foley catheter stepped adapter. The opposite end has a vented bottle connection.

- 134800 Single Line Equine Tubing Set w/flow valve & spike [gamma irr.] - 48" (each)
- 134820 Single Line Uterine Flushing/Lavage Catheter w/flow valve & spike [ETO strlzd.] - 60" (each)
- 704133 Long Foley Y Junction Tubing Set w/flow valve & Spike [Dual role, gamma irr.] - 60" (each)
- 704139 Simplex™ Tubing Set, Single Line w/flow valve & bottle adapter [gamma irr.] - 60" (each)

LOOKING FOR EQUINE INSEMINATION TUBES?

Check out pages 14-15 in this catalog. You'll find options for tubes of all standard lengths for mares (18" through 30"), and also deep-horn insemination tubes and intrauterine tubes for use with thawed straws (IUI Pipettes).



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