

Embryo Transfer and Artificial Insemination Products and Training

Volume 37



1.800.367.4016
www.agtechinc.com

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“Before coming to Agtech I was told by many that AI was simple and spending the time and money to come to Agtech was not necessary. It is not difficult, however the techniques taught here and the assistance when you are not quite getting where you need to be is great. Practice and knowing you have correct placement is key. Very well worth the expense! I was not disappointed.”

—Marni Brauker Union City, MI



Agtech understands entrepreneurial spirit and the desire to do things better and more efficiently. Agtech does not answer to shareholders, investors, or a board of trustees — we answer to you.



“I have never had Agtech products fail on me and that is crucial”

— Toby Muller, Adair, Iowa

“The staff at Agtech is very friendly, knowledgeable, and always keeps me up to date on changes and new products. If I have any questions, I know who to call.

The best part about working with Agtech is their personable staff and we can purchase most everything we need for ET supplies in one place.”

— Mary Kwasniewski, Office Manager
- Tri County Vet Clinic, Taunton, MN

“I feel like I am valued. If something goes wrong it is always made right.”

— Dr. Daren Statler, Greencastle Veterinary Hospital,
Greencastle, Pennsylvania

“This (Embryo Transfer) workshop was well organized and loaded with hands-on instruction. John is very knowledgeable and the Agtech staff was very friendly. The class size was perfect for one-on-one instruction.”

— Dr. Kurt Campbell, Tonkawa, Oklahoma

“(The Embryo Transfer work shop was) a very in-depth course with a lot of hands on experience. Very helpful and patient instructor. I feel very comfortable flushing cows, freezing, thawing and transferring embryos. I would certainly recommend this course in the future to anyone interested in ET. Everyone at Agtech was very friendly and helpful. Nice to have smaller group of students because it felt like there was adequate one-on-one instruction.”

— Dr. Michael Storlie, Northwoods Vet Service,
Wittenberg, Wisconsin

“One of my favorite things about the company is the friendly service I get when I call to place an order. Agtech definitely has the most personable customer service representatives around. Very pleasant to work with! The people bend over backward to make sure we are satisfied. I don't feel like I'm just another customer, great personal service.”

— James Vierhout, Hull, Iowa

Learn Artificial Insemination or Embryo Transfer

Classes: To learn more, view dates and tuition visit our web at www.agtechinc.com or call 800.367.4016 ext. 1

Cattle Embryo Transfer Procedure

Complete Embryo Transfer Class

3 days/30 hours comprehensive, hands-on course giving you all the information necessary to perform embryo transfer. You will learn how to flush, search, manipulate, and classify embryos. Procedure for loading embryos into straws for freezing or transfer. How to freeze, thaw and transfer embryos.

Transfer Embryos Class

Our one day, hands-on class teaches you how to successfully implant frozen direct transfer (DT) and fresh embryo into recipients. You will learn how to palpate recipient ovaries and identify ovarian structures. Embryo thawing and handling techniques and recipient synchronization protocols. How to implant both direct (ethylene glycol) and fresh embryos.

Artificial Insemination Class

A complete, hands-on, two day course teaches you the skill and techniques of A.I. You will learn frozen semen handling and thawing, basic anatomy of female cattle reproductive tract, heat detection systems, synchronization systems for heifers and cows.

DVD/Book

"Cattle Embryo Transfer Procedure" is an instructional manual for the large animal veterinarian, beef cattle breeder, dairyman, artificial insemination technician and university research scientist.

This comprehensive step-by-step, 56 page, laboratory training manual incorporates all the elements for a successful embryo transfer program. The book includes a companion DVD walking you through the steps of embryo transfer from the cow to the lab. You'll see how to collect, transfer, freeze and thaw embryos. A special section on embryo classification and grading is included.



User Friendly Shipping Options

Ground shipping policy.

- For orders over \$500, ground delivery is FREE in the USA.
- For orders less than \$500, your ground delivery charge will be based on the actual delivery charge with a minimum fee of \$15.00.

Same Day US Shipping

- Most orders for in stock items, received before 3:00 p.m. CST are packed and shipped that same day.
- No minimum order size
- Overnight air & 2nd day delivery available anywhere in the U.S.A.

International orders:

- Ship via Air Freight (delivered to your nearest major airport) or Air Express (delivered to your door).

Backorders>Returns/Exchanges

Back Order Freight Charge: Back order shipments for regularly stocked items are usually shipped FREE by ground.

When would you be responsible for back order delivery charges?

- If you request air delivery to receive the package sooner than you would by ground.
- If the carton contains a cold/refrigerated item which must arrive within 2 days and air delivery is required.

Returns/Exchanges: To exchange a product or receive a refund, you must contact Agtech within 10 days after shipment delivery to receive an RMA number. When returning product, please include a copy of your invoice along with the reason for the return. Note: Items returned must be in their original package, unused, and in new condition.

Items that cannot be returned include:

- Pharmaceuticals
- Serums & Media
- Semen Extenders
- Refrigerated/Frozen Products
- Non stocked special order items.

Damaged Freight

Your order leaves AGTECH in perfect condition. If your shipment is damaged in-transit, retain the packing box and product exactly as you received them. Call AGTECH immediately! We will see to it that the delivery company comes to inspect the damage, and that the damaged goods are replaced. Damages and shortages must be reported within 48 hours.

Terms of Payment

Credit Card: We gladly accept your VISA, MasterCard, Discover, and American Express.

Open Account: U.S.A. customers may apply for AGTECH's Net 30 credit program.

Check: Contact Agtech to place your order and obtain shipping costs. Once Agtech receives and verifies your check your order will be shipped. Make your check payable to AGTECH Inc. Checks will be verified through TeleCheck. **Agtech's returned check fee is \$50.**

Please Note: Customers outside the U.S.A. may pay by check provided the check is drawn on a U.S.A. bank, written in English, and payable in U. S. dollars.

Wire Transfer: Contact AGTECH to obtain wire transfer information.

Time in Transit

AGTECH's "Recommended Time in-Transit" footnotes located by selected products help you request a method of shipping to ensure that your frozen and/or refrigerated products arrive in a timely manner. Your AGTECH salesperson can advise you of the anticipated ground transit time.

Unfortunately, we cannot predict the weather and temperatures across the country. We ship your refrigerated and frozen products with frozen ice packs. When your shipment arrives the ice packs will be melted and may even be warm. However, unless subjected to extreme (greater than 98F/37C) heat for several hours, the products will be fine and should be refrigerated immediately upon receipt. Please request overnight shipping for frozen liquids.

Please understand that AGTECH is not responsible or liable for loss or inconvenience incurred due to delayed or non-delivery of your package. Delivery completion is the carrier's responsibility. Freight charges for "Guaranteed" 1-day or 2-day deliveries that are delayed due to inclement weather and other "acts-of-God" are not refundable, as per carrier's policy.

«Agtech is top of the line in the cattle industry.»

Craig

Agtech Sales Managers & Consultants are available by phone 8:00 a.m – 5:00 p.m. C.S.T., Monday-Friday.

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R_x Folltropin-V

- Best seller
- Highly purified lyophilized FSH from porcine pituitary glands.

Dosage: The typical application for mature female cattle (no Brahman influence) having no prior superovulation history is a decreasing dose injection schedule of 2 times daily over 4 days, consuming all 400mg/20ml.

Formulation: Each 20ml single dose vial contains FSH equivalent to 400mg of NIH-FSH-P1.

A30	1 dose/20ml vial
	1-4 vials
	5-9 vials
	10 or more

R_x Estrumate

- Prostaglandin
- Induces new heat cycle in 3-5 days.

Causes the regression of the corpus luteum in beef and dairy cattle. Dosage: Cattle 2ml Intramuscular.

A04	10 dose/20ml vial
	1-9 vials
	10 or more
A04A	50 dose/100ml vial
	3 or more

R_x Lutalyse

- Prostaglandin
- Induces new heat cycle in 3-5 days.

Causes the regression of the corpus luteum in beef and dairy cattle. Dosage: 5ml intramuscular

A03	6 dose/30ml vial
	1-9 vials
	10-19 vials
	20 or more
A03C	20 dose/100ml
	4 or more

R_x Prostamate

- Prostaglandin
- Induces new heat cycle in 3-5 days

Causes regression of the corpus luteum in beef and dairy cattle.
Dosage: 5ml intramuscular

Formulation: Each mL contains dinoprost tromethamine equivalent to 5 mg dinoprost.

A03A	6 dose /30ml vial
	1-9 vials
	10-19 vials
	20+ vials
A03B	18 dose/90ml
	1-5 vials
	6+ vials

P.G. 600

- Estrus inducer for gilts and sows

Indicated for induction of fertile estrus in non-cycling gilts over 5.5 months of age and weighing at least 187 lbs. Treatment will not induce estrus in gilts who have already begun to cycle. PG600 also complements AI programs for sows, returning most sows to estrus in 3-7 days.

Dosage: 5cc dose in neck behind ear. Estrus will be observed approx. 3-7 days after injection.

Formulation: 20iu hCG and 400 iu PMSG per dose

A41	5 dose vial, 25ml
	1-11 vials
	12 or more

R_x Chorulon

- hCG
- Induces ovulation
- Treats nymphomania due to cystic ovaries

Dosage is 10ml by deep IM injection.

Formulation: 10,000 units of chorionic gonadotropin (hCG) per single dose.

A59	five 10ml vials/ box
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R_x Fertagyl

- GnRH
- Treatment of cystic ovaries

Dosage: 2ml intramuscular or IV.

Formulation: 50ug/ml of gonadorelin(GnRH). Store refrigerated, 2-8C. 2 day transit.

A58	10 dose/20ml vial
	1-9 vials
	10 or more

“Like the people and the products and ease of ordering. Agtech has assisted me by always being aware of the products and offering advice.”

W. Sidwell, OK

R_x Factrel

- GnRH
- Treatment of ovarian follicular cysts in cattle

When used in cattle with ovarian follicular cysts Factrel causes a reduction in the number of days to first estrus.

Formulation: Sterile solution containing 50 micrograms of synthetic gonadorelin HCl per ml. Store refrigerated 2-5C. Recommended time in transit: 2days.

A07	10 dose/20ml vial
	20 ml
	1-9 vials
	10 or more

R_x Cystorelin

- GnRH
- Treatment of cystic ovaries

Formulation: Sterile solution 50mcg of GnRH (Gonadotropin releasing hormone) per ml. No refrigeration required.

A06	5 doses/10ml vial
	1-9 vials
	10 or more
A06D	15 doses/30ml vial
	10 or more

R_x Ovacyst

- GnRH
- Treatment of cystic ovaries

Formulation: Sterile solution containing 50 micrograms of GnRH (gonadorelin diacetate tetrahydrate) per milliliter. No refrigeration required.

A06A	6 dose/12ml
	1-9 vials
	10+vials 1
A06B	18 dose/36ml
	1-5 vials
	6+ vials

CIDR, Eazi-Breed

- Progesterone implant

Placed in the vagina of the animal, the Eazi-Breed CIDR insert releases progesterone until it is removed seven days later. Removing the CIDR insert, following a 5ml injection of Lutalyse on Day 6, causes a drop in progesterone that triggers estrus and ovulation—even in animals that were not previously cycling. Requires applicator for insertion.

A18 Formulation: 1.38 grams of progesterone.

A18B Formulation: .3 grams of progesterone.

A18	10 inserts/pack
	1-4 bags
	5 or more
A18B CIDR G for small ruminants	
	20 inserts/pack
	5 or more bags

CIDR applicator

Eazi Breed CIDR re-usable applicator for inserting CIDR implants.

A18A	1 applicator for cattle
A18C	1 applicator for small ruminants

R_x Regu-mate

- Oral progestin solution for suppression of estrus in mares.
- Facilitates scheduling of mares during the breeding season.

Allows for predictable occurrence of estrus following withdrawal of the drug.

Dosage: 1ml per 110 lbs body weight orally for 15 consecutive days. Administer with a dose syringe or add to grain ration.

Formulation: Contains 2.2 mg altrenogest per ml.

A46	1000ml bottle
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R_x Altsyn

Altsyn (altrenogest) ,oral progestin, is indicated for the suppression of estrus, to allow for predictable occurrence of estrus following drug withdrawal in mares. Estrus suppression can facilitate:

- Attainment of regular cyclicity during transition from winter anestrus to the physiological breeding season.
- Management of prolonged estrus conditions.
- Scheduling of breeding during the physiological breeding season.

Dosage 1ml per 110lbs body weight given once daily for 15 consecutive days or consult your veterinarian

Formulation: 2.2 mg of altrenogest per ml.

A49	1000ml bottle
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New



“So easy to find all items under one roof.”
 Dr. N Kumar, India



R_x Oxytocin

- Accelerates normal birth in domestic animals
- Lets down milk in a properly filled udder.

Dosage: .25cc to 5cc

Formulation: A sterile solution containing 20 units per cc of oxytocin.

A09	100ml vial
	1-11 vials
	12 or more

R_x Acepromazine Maleate

- Tranquilizer

Sterile injectable tranquilizer for dogs, cats and horses. Has rapid onset and good safety margin.

Formulation: 10mg/ml Acepromazine Maleate

A13	50ml vial
	1-11 vials
	12 or more



R_x Banamine Injectable

- Treats fever and inflammation

Cattle: Reduces fever associated with BRD and treats inflammation due to endotoxemia.

Horses: Treats inflammation of the musculoskeletal system.

Formulation: 50mg/ml flunixin meglumine

A12	100ml vial
	1-5 vials
	6 or more

R_x Flunixinamine

- Treats fever and inflammation
- Generic equivalent of Banamine

Cattle: Reduces fever associated with BRD and treats inflammation due to endotoxemia.

Horses: Treats inflammation of the musculoskeletal system.

Formulation: 50mg/ml flunixin meglumine.

A67	100ml vial
	1-5 vials
	6 or more

R_x Lidocaine

- Anesthetic

Formulation: 2% (20mg/ml) lidocaine for use as a local anesthetic.

A15	100ml vials
	1-11 vials
	12 or more

R_x Nuflo

- Antibiotic
- Treatment of BRD

Unique, prolonged action injectable antibiotic. Used to treat BRD or shipping fever/pneumonia. Not for use in breeding age or lactating cattle.

Dosage: Intramuscular in the neck 2ml/100lbs. Not to exceed 10ml per injection site, with a second dose 48 hours later.

Formulation: 300mg/ml florfenicol.

A08B	100ml vial
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R_x Excenel

- Treats acute postpartum metritis
- Zero milk withdrawal
- FDA approved for Beef and Lactating Cattle.

Dosage: 1-2ml/100lb once daily for 3-5 days. Intramuscular or subcutaneous injection.

A89	100ml vial
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R_x Gentamicin

- Generic equivalent of Gentocin
- Controls metritis (uterine bacterial infections)

Dilute each dose with 200-500ml sterile saline prior to infusion.

Dosage: 40-50ml/day for 3-5 days during estrus.

A11A	100mg/ml vial
	1-11 vials
	12 or more



“I really like the Agtech branded products. I purchase products from Agtech because of their value and dependability.”

G. Meier, MO

Client/Producer Please Print

Name/ Farm Name _____

Address _____

City _____ State _____

Zip/Postal Code _____

Country _____

Phone () _____

Fax () _____

Patient Name _____

Client/Producer Signature _____

Date _____

Veterinarian Please Print

Current State License No. _____

Veterinarian's Name _____

Clinic Name _____

Address _____

City _____ State _____

Zip/Postal Code _____

Country _____

Phone () _____

Fax () _____

Veterinarian Signature _____

Date _____

Check One box only please:

- Generic Equivalent Allowed
- Dispense as Written (brand name only)

Please mark which drugs the Client/Producer can purchase; with unlimited refills.

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> Acepromazine | <input type="checkbox"/> Folltropin |
| <input type="checkbox"/> Altresyn | <input type="checkbox"/> Gentamicin |
| <input type="checkbox"/> Banamine Injectable | <input type="checkbox"/> Lidocaine |
| <input type="checkbox"/> Chorulon | <input type="checkbox"/> Lutalyse |
| <input type="checkbox"/> Cystorelin | <input type="checkbox"/> Nuflo |
| <input type="checkbox"/> Estrumate | <input type="checkbox"/> Ovacyst |
| <input type="checkbox"/> Excenel | <input type="checkbox"/> Oxytocin |
| <input type="checkbox"/> Factrel | <input type="checkbox"/> Prostatemate |
| <input type="checkbox"/> Fertagyl | <input type="checkbox"/> Regu-Mate |
| <input type="checkbox"/> Flunixinamine | |
- Please drop ship to customer

OFFICE USE ONLY

Clinic contacted on _____

Rx verified? Yes No _____

By whom? _____

Left a message; waiting on call-back _____

State Veterinary Board contacted on _____

License verified? Yes No _____

By whom? _____

Prescription expires _____

Please read the following instructions carefully to avoid delays in processing your prescription form and orders.

Client/Producer: If you are not a veterinarian you must have a cooperating licensed veterinarian fill out and fax or mail this original form to AGTECH prior to ordering. You will need to complete, sign and date the Client Box information.

Veterinarians: Veterinarians purchasing prescription drugs must fax or mail this original form to AGTECH prior to ordering. You must provide your license number, name, address, phone number, signature and date, before this form can be validated. If you are completing this form for a client you must provide the information requested in the veterinarian section as well as check marking the drugs that your client is allowed to purchase.

The following applies to all customers wishing to purchase prescription pharmaceuticals.

- Federal U.S.A. law restricts prescription drugs (those listed with a Rx) to be purchased by or on the written order of a licensed veterinarian.
- Federal U.S.A. law requires prescription information to be verified before any prescription pharmaceutical can be shipped.
- Please allow 24 hours for Agtech to verify this information.
- Immediate legal action will be taken against any false/forged information provided.
- Prescriptions are valid for 12 months with unlimited refills.



C32



C32A



C33



C15



C15C



C22



C06

BioLife™ media are manufactured with cradle-to-grave traceability within a robust QA system, assuring FDA specified document and label control. Custom manufactured to Agtech's precise standards by an FDA registered laboratory that is ISO 9001:2000 certified. Rest assured that BioLife embryo media will match your highest standards and expectations.

BioLife™ “Advantage” Complete Flush Medium

- Recommended for embryo recovery in bovine and equine
- Complete, ready-to-use medium. No serums, antibiotics or refrigeration required.
- Crystal clear, sterile medium produced to Agtech's exacting standards.
- Bags contain a Spike Port and an Injection Port.



Complete, ready to use solution utilizing PVOH (polyvinyl alcohol) for the necessary surfactant properties attributed to serum and BSA, while eliminating the concern for serum traceability and the associated health status of the serum donor.

Sterile filled in the USA into state-of-the art bags which are technologically superior for maintaining critical pH and osmolality of the embryo collection medium. Bag seams are radio-frequency welded for superior seam strength, an important requirement for transcontinental shipping and field use. Compare with EVM014 ViGro Complete Flush Medium and IC24 Emcare Ultra Flush Medium.

Formulation: D-PBS (1x liquid) with sodium pyruvate, PVOH, gentamycin and kanamycin. Store at 15 to 25C, room temperature.

C32	1 case of ten 1 liter bags
	8 or more cases
C32A	1 liter bag
C33	1 case of six 2 liter bags
	8 or more cases
C33A	2 liter bag

BioLife™ Holding & Transfer Medium

- Specifically formulated to optimize embryo viability between collection & transfer.
- Field-tested, internationally used and approved.



Use this solution for holding embryos between collection and transfer, for straw and filter rinsing, and as the intrauterine transfer medium. Compare to EVM024 ViGro Holding Plus.

Formulation: M-PBS with 4mg BSA fr.V, 100ug streptomycin, 0.25ug amphotericin-B and 0.02mg kanamycin/ml. No phenol red. pH 7.2 +/-0.1. Store at 2 to 5C, refrigerate.

2 day transit.

C15	50ml bag
	6 or more bags
C15C	8ml plastic tube, 6 plastic tubes/box
	4 or more boxes

BioLife™ Freeze Medium Ethylene Glycol

- Freeze medium allows direct transfer (zero step thaw)
- Certified mycoplasma-free BSA and guaranteed endotoxin levels <.025ng/ml.



Eliminate measuring guess work and down time at the job site by using the convenient, reliable zero step thaw BioLife Freeze Medium. Embryos frozen in BioLife ethylene glycol freeze medium can be thawed almost like semen. Simply thaw the straw, insert into the transfer gun and go to the recipient. Compare to EVM234 ViGro Ethylene Glycol.

Formulation: M-PBS with 4mg BSA fr.V, 100ug streptomycin, 0.25ug amphotericin-B, 0.02mg kanamycin, 0.1m sucrose, and 0.084ml (1.5 molar) ethylene glycol/ml. No phenol rd. pH 7.2+/-0.1. Store at 2 to 5C, refrigerated.

2 day transit.

C18	50ml bag
	6 or more bags
C18C	8ml plastic tube, 6 plastic tubes/box
	4 or more boxes

Trypsin, with Phenol Red

- For washing embryos for export when trypsin treatment is needed.



Formulation: 0.25% (1x) trypsin. Store refrigerated. Requires overnight shipping.

Requires overnight shipping in the USA. International shipping requires dry ice.

C22

BioLife™ D-PBS

- Rinsing solution
- Transfer solution

Use as a rinsing solution for your filters and dishes or as a transfer solution.

C06	125ml bottle
	10 or more





Vétoquinol

ViGro Culture Media by Bioniche are complete solutions which require no additives or mixing.

ViGro Complete Flush Medium

- Complete, ready-to-use medium. No serums, antibiotics or refrigeration required.
- Recommended for embryo recovery in bovine and equine

Complete, ready to use solution utilizing PVOH (polyvinyl alcohol).

Formulation: PVOH, gentamycin and kanamycin antibiotics and phenol red as a pH indicator.

EVM014	1 case of ten 1 liter bags
	6 or more cases
EVM014A	1 liter bag
EVM015	1 case of six 2 liter bags
	6 or more cases
EVM015A	A single 2 liter bag

ViGro Rinsing Solution

ViGro Rinsing Solution is used for washing (rinsing) embryo collection filters at the end of the collection, although embryos usually do not stick to the filter. A fast and effective way to do this is to fill a 20ml syringe with Rinsing Solution and spray the surface of the filter while holding the filter over a clean searching dish.

Recommended storage: 15 to 30°C, however it will not be harmed by refrigeration. Do not freeze.

EVM100	1 case of ten 1 liter bags
	6 or more cases
EVM100A	1 liter bag

ViGro Holding Plus

- Designed to support optimal embryo survival at room temperature
- Closely resembles those fluids found in the reproductive tract

Holding Plus is not an appropriate medium for long-term culture of bovine embryos in a CO2 incubator. Store refrigerated 2 to 5C. 2 day transit.

EVM024	50ml bag
	6 or more bags
EVM824	8ml plastic tube, 6 plastic tubes/box
	4 or more boxes

SYNGRO Holding Media

- Room temperature storage
- Non-animal origin formulation.
- Approved for use with bovine and equine embryos.

Formulation: The product contains hyaluronan, a linear polysaccharide of alternating D-glucaronic acid and N-acetyl-D-glucosamine. Embryos have been shown to have surface receptors for hyaluronan, which is involved in the regulation of gene expression, cell proliferation and cell differentiation. This product does not contain materials of animal origin.

Recommended use: Embryos should be recovered from the flushing solution and transferred to a covered petri dish containing SYNGRO Holding. Embryos can be held at room temperature for up to 9 hours or up to 20 hours at 4°C. Embryos can be transferred using a straw containing SYNGRO Holding.

Recommended storage: 15 to 30°C, room temperature. Does not require refrigeration.

ESM824	8ml plastic tubes, 6 plastic tube pack
	6 or more packs
ESM024	50ml bag
	6 or more bags

ViGro Ethylene Glycol Freeze Plus with Sucrose

- Zero step thaw

Ethylene glycol moves across cell membranes more readily than glycerol so embryos can be transferred directly into recipients without removing the embryo from the straw.

Formulation: 1.5M ethylene glycol and 0.4% BSA. Store refrigerated 2 to 5C. 2 day transit.

EVM234	20ml bag
	6 or more bags
EVM834	8ml plastic tube, 6 plastic tubes/box
	4 or more boxes
EVM034	50ml bag

ViGro One-Step Thaw

- Rapid re-hydration of embryos

The use of a 1M sucrose solution for the rapid one-step re-hydration of embryos is convenient for thawing embryos frozen in glycerol solution.

Formulation: 1M sucrose. Store refrigerated 2 to 5C. 2 day transit.

EVM247	20ml bag
	6 or more bags
EVM847	8ml plastic tube/6 tubes per box
	4 or more boxes

ViGro Thaw 1, 2, 3 Plus

- Ideal for embryos with compromised zonae
- Excellent safety factor on cold days when glycerol diffusion from embryos is slower and on hot days when higher sucrose concentrations may be detrimental.

The ViGro thawing program consists of three pre-mixed solutions which are used in sequence to ensure the safe and gentle thawing of frozen embryos. The three formulations contain decreasing concentrations of glycerol (5.0%, 2.5% and 0%) and carefully selected concentrations of sucrose (0.5M, 0.5M and 0.6M).

Formulation: (5.0%, 2.5% and 0% glycerol) (0.5M, 0.5M and 0.6M sucrose).

Store refrigerate 2 to 5C. 2 day transit.

EVM248	Three 20ml bags/thaw kit
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No Refrigeration
Required!



Emcare™ provides optimal support for safe embryo handling, with effective flushing and handling media developed by the world's leading embryo physiologists. All EmCare products contain 25mg/L kanamycin-sulphate antibiotic.

- Sterile filled
- Subjected to extensive quality assurance procedures

Emcare Complete Ultra Flush Medium

- Contains ICPbio low endotoxin bovine albumin providing surfactant and embryo protective properties, with binding sites absorbing plasticizers, endotoxins and proteases.
- Low foaming formulation—50% less foaming than previous formulations.

Easy hook up to a flushing assembly, protected sterile ports with a one-way valve for syringe method or new tap free syringe method flushing assembly.

Formulation: 0.4% ICPbio bovine albumin, 25mg/L kanamycin-sulphate

IC24	2000ml bag, cases of 5 bags
	8 or more cases

Emcare 20% Albumin Concentrate

- Ideal for IVP and ET techniques

Formulation: 20% bovine serum albumin. Store in cool, dry environment. 2 day transit.

IC9	Five 20ml plastic tubes
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Emcare Holding Solution

Formulation: 0.4% ICPbio bovine albumin, MOPS buffer (inert zwitterions). Store refrigerated 2C to 5C 2 day transit.

IC2	6ml plastic tube
	20 or more plastic tubes
IC4	20ml plastic tube
	5 or more plastic tubes
IC6	100ml plastic tube

Emcare Ethylene Glycol Freeze Solution

Formulation: 1.5M ethylene glycol., 0.4% ICPbio bovine albumin. Store refrigerated 2C to 5C. 2 day transit.

IC8	6ml plastic tube
	20 or more plastic tubes
IC10	20ml plastic tube
	5 or more plastic tubes

Emcare 10% Glycerol Freeze Solution

Formulation: 10% glycerol, 0.4% ICPbio bovine albumin. Store refrigerated 2C to 5C. 2 day transit.

IC12	6ml plastic tube
	20 or more plastic tubes

Emcare 1M Sucrose Thaw

Formulation: 32.2% Sucrose (1M), 0.4% ICPbio bovine albumin. Store refrigerated 2C to 5C. 2 day transit.

IC16	6ml plastic tube
	20 or more plastic tubes

Emcare CSU Thawing Kit

1. 6% v/v glycerol + 0.3 (10.3% w/v) sucrose in Emcare™
2. 3% v/v glycerol + 0.3 (10.3% w/v) sucrose in Emcare™
3. 0.3M (10.3%) sucrose in Emcare™
4. Emcare™ hold

* To use Embryo Thawing System: Thaw straw 15-20 seconds in 37C water bath then pass embryos through each of the 4 solutions 6-7 minutes each.

Store kit refrigerated 2C to 5C. 2 day transit.

IC20	Four 6ml plastic tubes/kit
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Syringes

It is recommended that syringes with rubber tip plungers (RTP) not be used for rehydrating or holding solutions that will come in contact with embryos. The lubricant on the plunger is possibly embryo toxic. All plastic (AP) syringes should be used for these purposes.

All syringes are luer slip unless noted otherwise. Luer lock syringes available on request.

CellSafe™ Syringes – The Safest 2 part Syringe Available

- 2 part, Sterile, All Plastic perfect for embryo work.
- Acentric tip minimizes bubbles transferred with medium into the search dish.
- Mouse Embryo Assay & Human Sperm Survival Assay Certified means peace of mind knowing your embryos are safe from toxins.
- Endotoxin Level <0.5EU/ml (<5.0EU/kg)
- Meets or exceeds ISO 10993-5 In-Vitro Cytotoxicity Standards.

CellSafe™ Syringes by HB- 2 part (AP) Best for media coming in contact with cells & cell culture work. 100 syringes per box.

G60	2cc centric tip. 1-26 boxes
	27 or more boxes
G61	5cc acentric tip. 1-17 boxes
	18 or more boxes
G62	10cc acentric tip. 1-11 boxes
	12 or more boxes
G63	20cc acentric tip. 1-7 boxes
	8 or more boxes

Normject Syringes

2 part (AP) for media coming in contact with embryos & cell culture work.

		1 Box	2 or more Boxes
G08	30cc (AP) 50/box		
G09	50cc (AP) 30/box		

Monoject Syringes

3 part RTP

		1 Box	2 or more Boxes
G11	1 cc TB 100/box		
G13	3cc 100/box		
G14	3cc with 20ga x 1" needle luer-lock100/box		
G15	6cc 50/box		
G16	12cc 80/box		
G18	35cc30/box		

Needles

As gauge (ga) number decreases the needle diameter increases. 1 Box 2 or more Boxes

Normject Needles

	100/box, plastic hub.
G24	18 ga x 1.5"
G25	20 ga x 1"
G26	20 ga x 1.5"

Monoject Needles

	100/box, plastic hub except (16ga which are aluminum)	1 Box	2 or more Boxes
G29	16 ga x 1"		
G31	18 ga x 1"		
G32	18 ga x 1.5"		
G33	20 ga x 1"		
G34	20 ga x 1.5"		

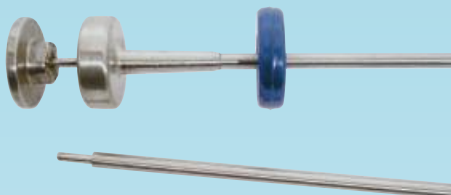
CellSafe™ Syringes



“You have the best products for embryo transfer. Your service is very good and easy.”

Dr. Torna, Ecuador





Transfer Guns

Also known as the IMV Mini Syringe.

F17 deep chamber accepts full length 0.25ml straws. F17A shallow chamber rod accepts 0.25ml straws that have been clipped or shortened immediately prior to insertion into the rod. Both rods require a 21" sheath, choose from the Agtech F20 or F21 or the IMV F18A or F18.

F17	Deep chamber
F17A	Shallow chamber
F23A	IMV Equine ET Syringe Gun.5ML (fits with F22 sheaths)

Agtech "Optimum" Sheath, 21"

- Stainless steel, side delivery tip sheath, preferred for transferring embryos.
- Fits the IMV transfer rod, items F17 and F17A.
- Fits F23A gun.



Comparable to the IMV sheath the Agtech embryo transfer sheath costs less, but performs equally as well. The sheath's stainless steel side-delivery port, through which the embryo is expelled, is less likely to become plugged with mucus and debris during the transfer procedure when compared to conventional transfer sheaths. The round smooth sheath tip minimizes uterine trauma during transfer.

F20	Pack of 5, no chemise. For Bovine or smaller embryos, 0.25ml straws
	1-29 packs
	30 or more packs
F21	Pack of 25, individually packaged w/chemise. For Bovine or smaller embryos, 0.25ml straws
	1-5 packs
	6 or more packs
F22	Pack of 5, individually packaged w/chemise. For Equine Embryos, 0.50ml side delivery sheath, 0.50ml straws
	1-5 packs
	6 or more packs



IMV Oversleeve Sanitary Chemise

Protective plastic sleeve is pulled over the transfer or insemination rod immediately prior to entering the cow/heifer. Prevents the transfer of contaminants into the uterus during insemination or embryo transfer. Upon contact with the cervix, the sleeve is pulled back forcing the clean rod through the sleeve.

F27B	18" oversleeve, roll of 100
F27C	21" oversleeve, roll of 80

Sani-Shield Rod Protectors

Sterile PVC "Sani-Shield Protector" is used as a protective cover for assembled rods. It prevents the transfer of contaminants into the uterus during insemination or embryo transfer. A slight forward push will enable the rod to pass through the protective tip. Individually wrapped, packed 25/poly bag.

B7-4525	8" (20.32cm) long
B7-4625	10" (25.40cm) long
B7-4725	12" (30.48cm) long

Insemination Gun, O-Ring

- Uses sheath with green insert
- For 0.25ml straws only

Made of durable stainless steel with welded components. Dimensions are 18" (45.72cm) long, .156" (.40cm) O.D. Use with sheaths B6-4400 or B6-4400C. Gun for 0.25ml straws.

7070	Gun for 0.25ml straws
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Insemination Gun, Spiral Hub

- Uses spiral sheath with blue insert
- Universal gun accepts either 0.25ml or 0.5ml straws

Made of durable stainless steel with welded components. Dimensions are 18" (45.72cm) long. Use with sheaths B6-4500 or B6-4500D

7072	Universal gun
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Insemination Gun & Sheath for Sheep & Goats

"All-2-Mate" universal gun accepts 0.50ml & 0.25ml straws.

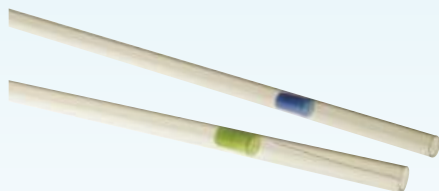
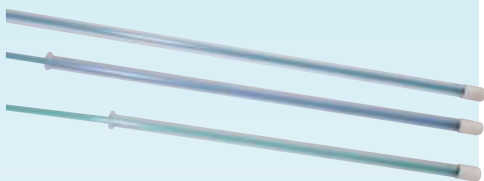
G6-3250	AI gun
G6-4400	Sheath 25/pk

AI Sheaths with insert

- Insert provides a secure seat for 0.25ml and 0.5ml straws
- Dimensions 17.5" (44.45cm) long, .278" (.452cm)O.D.

Green insert sheath is slit and slides on the o-ring hub gun. Blue insert sheath is un-slit and easily twists on the spiral portion at the head of the spiral gun. 50 sheaths/pack.

B6-4400	Green insert sheaths, individually packaged, for O-Ring gun.
	4 or more packs
B6-4400C	Green insert sheaths, bulk package, for O-Ring gun.
	4 or more packs
B6-4500	Blue insert sheaths, bulk package, for O-Ring gun.
	4 or more packs
B6-4500D	Blue insert sheaths, individually packaged, for O-Ring gun.
	4 or more packs



Infusette™ Tubes, Bovine

Infusette™ tubes/pipettes with drilled syringe end for easy coupling with a luer tip syringe and eliminates the need for an adapter. 25 tubes/pk.

B8-5230 21" non-sterile



B8-5230

Infusion Pipette, equine blue flexi-syringe connection

These pipettes have an attached syringe adapter and are specially designed for use with many of the common uterine infusion products. 25 pipettes/pk

E6-5315 22" sterile indiv. wrapped
E6-5415 25" sterile, indiv. wrapped



E6-5315

E6-5415

Semen Infusion Pipette, flexible tip, equine

- Rounded and polished entry tip to minimize tissue trauma
- Individually package and radiated.
- 25 pipettes/pack



E057 25"

Flexible Insemination Tube

Appropriate for IUI techniques. 10 Tubes.

537-682-10 30"



E057

Universal Pipette, Equine

- Suitable for fresh and frozen semen.
- Smooth round flex tip for gentle insertion.
- Precision tooled tip with inner cone for straws.
- Flexible to adapt to cervical conformation.
- For intra-uterine insemination (IUI).
- Frozen Semen: Use with 0.5ml straws and stylet. Pipette remains in place in the mare when multiple straws are required for insemination. Remove empty straw with the stylet and reload in place.
- Fresh/cooled Semen: Fill syringe with semen and connect syringe to Universal Pipette



E1275 75cm long, not sterile w/internal pipette

E1275

Gloves, Exam

These latex wrist length gloves are powdered so they go on easy. Not sterile. 100 gloves per box.

J07 Medium
2 or more boxes
J08 Large
2 or more boxes



J07-J08

Sleeves, Shoulder Length

A 34" (86.36cm) long, 1 mil thick, disposable shoulder length glove manufactured of high quality polyethylene. A sturdy, airtight, universal size glove packed in an easy dispensing hard box.

B6-1010 100 sleeves/box
2 or more boxes



B6-1010

Sleeves, Super Sensitive™

A 34.75" long shoulder length glove manufactured of high quality 1 mil soft light blue polyethylene. Designed to fit the hand with minimum material overlap, and has the ability to stretch providing exceptional tactile sensibility.

V7-2312 Packed 100/ dispenser box.
10 or more boxes
J02A 10/bag, radiated, individually wrapped, sterile
10 or more bags



V7-2312

J02A

J04

Sleeves, Fingerless

Fingerless sleeve protects your arm while allowing you to feel with your fingers. Shoulder length sleeves are 1.25 mil thick. 100 sleeves/bag.

J04 10 or more bags

Lubogel-V

A lubricating jelly composed of a solution of Sodium Carboxy MethylCellulose in Propyleneglycol. Minimizes irritation to the skin and the delicate mucous membranes of animals. Not sterile.

6655 1 gallon
4 or more, gallons

Therio-gel® Veterinary Fertility Lubricant

Lubricant for all animal species clinically shown to not harm sperm, embryos or sensitive tissue. Therio-gel is perfect for:

- Artificial insemination of cattle
- Collecting semen from bulls
- Artificial insemination of mares
- Collecting semen from stallions
- Breeding soundness evaluations of stallions
- Inseminating sows, sheep, goats, llamas and alpacas
- Collecting semen for breeding pigs, sheep, goats, llamas and alpacas

6142 3.6oz tube (106 ml; 102 g)
12 or more tubes
6142A 4 single-use packets (0.24oz / each packet)





Vortech™ Silicone Bovine

Vortech™ Silicone Bovine Catheters 23" long, Sterile

- 100% pure medical grade silicone with 6 large off-set eyelets
- Sterile and autoclavable.
- Extra long length: 23" (58cm)
- Foley 2 way, closed end



Agtech Silicone catheters are sterilized for ready-to-use convenience. A stylet tip "pocket" at the end of the Agtech catheter surrounds and guards the stylet reducing chances of uterine trauma. Autoclavable and durable so you can use it again and again. A longer catheter simplifies horn flushing large, deep cows with heavy tracts. Available in 5cc or 30cc balloon. French sizes 14fr to 22fr.

E112	14fr 5cc balloon	E104	20fr 5cc balloon
E100	16fr 5cc balloon	E105	20fr 30cc balloon
E101	16fr 30cc balloon	E106	22fr 5cc balloon
E102	18fr 5cc balloon	E107	22fr 30cc balloon
E103	18fr 30cc balloon		
1-9 catheters of the same item number			
10 or more of the same item number			

Silicone Small Ruminant Catheter

Autoclavable, re-usable, and sterile silicone catheter for small ruminants.

ECE083	8fr 5cc 12" long
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Vortech™ Silicone Catheter Syringe Flush

- Sterile
- Foley 2 way, closed end
- Similar to the Minitube "Desi" catheter
- Used for Syringe Flushing



E203	18fr 30cc balloon, 25.2" (64.1cm)
	1-99 catheters
	100-499 catheters
	500+ catheters
E204	20fr 30cc balloon, 25.2" (64.1cm)
	1-99 catheters
	100-499 catheters
	500+ catheters
E205	18fr 40cc balloon, 33.1"(84cm)
	1-99
	100-499 catheters
	500+ catheters

Vortech™ Silicone Equine Catheters 34" long, Sterile

- 100% pure medical grade silicone with 4 large off-set eyelets, open end
- Sterile and autoclavable.
- Extra long length: 34" (86cm)



Silicone catheters from Agtech are sterilized for ready-to-use convenience. Autoclavable and durable so you can use it again and again. French sizes 28fr to 36fr.

E108	28fr 80cc balloon
E109	32fr 80cc balloon
E110	36fr 80cc balloon
	1-9 catheters of the same item number
	10 or more of the same item number



Latex Catheters 18" Long

Foley 2 way catheter is sterile & disposable. Silicone lined, latex catheter recommended one time use. Available in 5cc or 30cc balloon, French sizes 14fr (smallest diameter for use with E23 stylet) to 24fr (for use with stylets E24). An industry standard.

E02	14fr 5cc balloon	E05	20fr 5cc balloon
E09	14fr 30cc balloon	E12	20fr 30cc balloon
E03	16fr 5cc balloon	E06	22fr 5cc balloon
E10	16fr 30cc balloon	E13	22fr 30cc balloon
E04	18fr 5cc balloon	E07	24fr 5cc balloon
E11	18fr 30cc balloon	E14	24fr 30cc balloon
	1-9 catheters of the same item number		
	10 or more of the same item number		

Stylets

Stainless steel stylets for use with latex and silicone catheters.

E23A	25" long, small diameter, 14fr or smaller
E24A	25" long, large diameter, for 16fr or larger
E24AC	34.5" long, large diameter, for 16fr or larger

Stylette

Bioniche stainless steel safety coated stylette.

ECE020	23.6" long
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E203



Vortech Silicone Equine

Latex 18"



E23A - E24A

Filters are sterile, individually packaged and compatible with our Y-junction tubing, E27. Used for embryo collection during flushing.

Agtech zona™ Filter

- Tethered cap on the inflow port to securely seal post flush.
- Air vent with cap
- Pinch clamp for regulating outflow.
- 120ml capacity
- 75 micron stainless steel screen.
- Compare to the EmCon Filter.



D03	1-19 filters
	20-99
	case of 100

EmCon Filter

- 120ml capacity
- 75 micron stainless steel screen
- Includes drain tube with pinch clamp

D02	1-19 filters
	20 or more

Minitube/MiniFlush Filter

- Halves separate after collection to permit searching in the dish
- Includes drain tube

D05A	1-19 filters
	20 or more

VCI Filters

- High Volume 120ml media capacity
- Low Volume 50ml media capacity
- 75 micron mesh nylon filter

D04	High volume filter
	1-19 filters
	20 or more
D05	Low volume filter
	1-19 filters
	20 or more

Agtech Rapid-Flow™ Y-Tubing

- Radiated, individually packaged.
- Each 5' (152 cm) tubing arm includes a color coded pinch clamp.
- Spike end mates to 1 liter and 2 liter medium bags.
- Catheter end mates to bovine & equine catheters.
- Filter end mates with all filters listed.



E27	1-19 tubing
	20-99
	case of 100

Syringe Filter

Low Protein binding membrane maximizes recovery of critical components. Gamma radiated, individually blister packaged. Attaches to luer tip of syringe: 0.2 u filter screen, 25mm disc diameter. Manufactured by Starlab Scientific.

D06G	Starlab Scientific	10 filter pack
D06F	Starlab Scientific	100 filter pack

IVF (In Vitro Fertilization) Catheter

- For aspirating and manipulating embryos between dishes.
- Packaged 5 radiated catheters per individual zip lock bag.
Sold 50 catheters /pack. Use w/ item G11, 1ml syringe.

D17	1-5 packs
	6 or more packs

Tom Cat Catheters with Suture Adapter

Individually packaged & sterile. 50 catheters/box.

703013	4.5" long open end. 1-9 boxes
	10 or more boxes
703021	5.5" long open end. 1-9 boxes
	10 or more boxes

Mechanical Pipettor

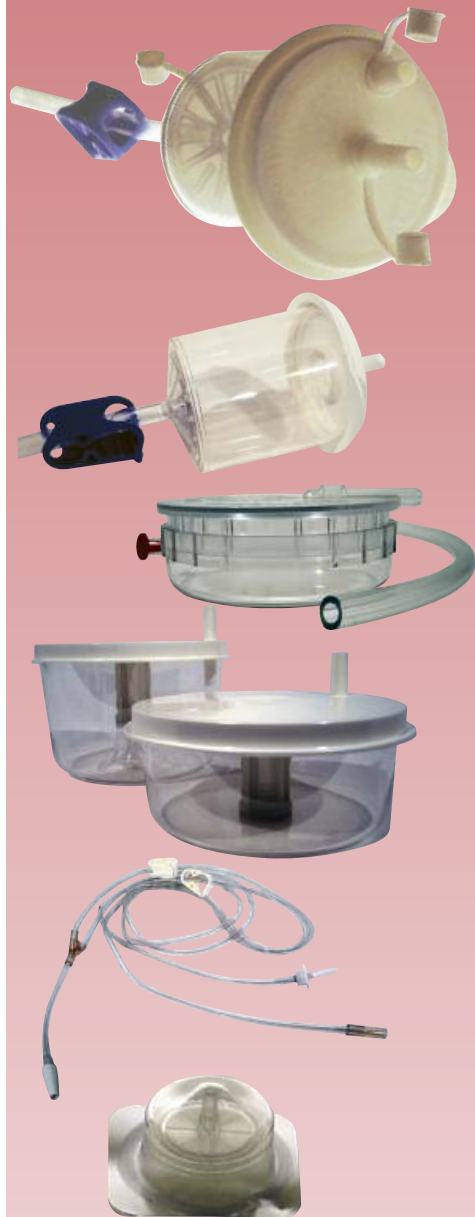
Lightweight, fixed volume 5ul full displacement pipettor now with a built in tip ejector.

EHP11	5ul Pipettor
EHP12	1-200ul capacity tips. Rack of 96 sterile tips
EHP12A	Snowflake Style

Microdispenser, fixed volume

Delivers fixed volume at increments of 1,2,3,4, or 5ul using glass capillary bores.

D22	Model D22 microdispenser
D23	Glass bores for model D22. 100/pk, sterile
D21	Glass bores for model D20. 100/pk, sterile





D12C



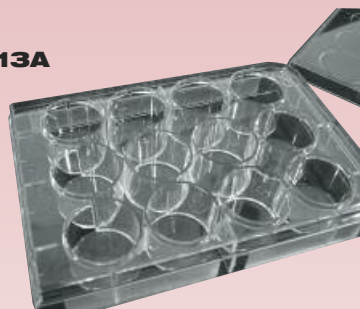
D18

“The dishes work great for our IVF rederivation program for importing mouse lines to Mount Sinai. In the past we used traditional 6-well dishes, but there were occasionally issues with keeping the IVF drops from spreading to the edge under the oil. There are no problems with the Agtech dishes, and we use much less mineral oil to cover the drops during the IVF incubation.”

D18

—Mr. Edwards - California

D13A



D08



D09A



D10

DISHES

2 Well Dish with Lid

- Rounded wells 1.25" diameter
- Lid has frosted area for plate coding
- Polystyrene, Radiated

D11 20 dishes/pk

Agtech Solution™ 4 Well Dish with Lid

The 4 well dish is an embryo safe, sterile, 4 well dish manufactured in compliance with FDA standards. Certified: MEA 1 cell mouse embryo assay. HSSA Human sperm survival assay. ENDO USP endotoxin standard <0.5 EU/ml

Features of the 4 well dish:

- Functional design & dimensions identical to NUNC 4 well
- Sterile, 15mm diameter, 10mm deep holds 1.9ml/well, flat bottom
- Popular for holding and washing embryos
- Raised well rims lower risk of cross contamination
- Compare to the NUNC 4 well



The manufacturer of the 4 well dish strictly follows ISO guidelines for quality control. Quality Certification ISO9001:200. Sterilization Irradiation ISO13485

Important: The use of embryo toxicity certified plastic-ware is essential for optimum embryo viability. (Lane, Mitchell, Kashman, Feil, Wakefield, & Zander-Fox, January 2008). At a minimum, plasticware should be bioassay certified for the **one-cell mouse embryo assay** (Tucker & Jansen, 2002). Additional levels of confidence are achieved by **HSSA** (human sperm survival assay) certification and also **low-level endotoxin certification**. The Agtech Solution™ 4 well dish carries all three certifications.

D12C 4 dishes/package
30-59 pks
60-119 more pks
120 or more pks

Agtech Solution™ 6 Well Dish with Lid

The Solution™ for keeping your embryos safe

- Mouse Embryo Assay & Human Sperm Survival Assay Certified means peace of mind knowing your embryos are safe from toxins.
- Unique tapered & sloped sides ensure embryos will settle to bottom of well.
- 1cc well capacity conserves costly media
- 8mm flat well bottom eliminates time-consuming searching to locate embryos
- Numbered cells and a 1 way fit lid.

Individually wrapped and Gamma Sterile

D18 10 dishes/sleeve
10 or more sleeves



12 Well Dish with Lid

- Sterile with flat bottom and lid
- Wells have alphanumeric labeling
- Single dish, individually wrapped
- 340ul, 22.2m diameter, 6.30ml wells

D13A

Petri Dish, Small with Lid

- 30x15mm
- Round, sterile dish with flat bottom for holding/washing embryos

D15C Agtech Solution™, 20 dishes/pk
6 or more pks
D15 Falcon, 20 dishes/pk
6 or more pks

Agtech Solution™ Round Search Dish with Lid

- 90x20mm with quebec grid bottom
- Polystyrene, sterile

D08 10 dishes/pk
10 or more pks



Square Search Dish with Grid

- 100mmx15mm with flat, gridded bottom
- Polystyrene and sterile

D09A 10 dishes/pk
10 or more pks

Ova Search Bowl

- 120cc capacity
- Three rings in bottom aid in searching
- Polystyrene, Radiated

D10 12 bowls/pk

Embryo Transport Tube

- Transport fresh embryos in medium
- 12mm x 75mm, 5ml capacity
- Plastic, sterile tubes with plug type polyethylene snap caps
- Round bottom

D16 25 tubes/pk

Straws with Wick & Powder (W&P), Radiated

133mm gamma radiated IMV straws with no ethylene oxide risk. The RWB (red/white/blue) W&P straws have a plug that seals stronger when wetted properly, lowering the potential for "blow outs." Straws are packaged 5/ziplock bag; 10 bags (50 straws) /pack.

F01	.25 cc clear straws 3 or more packs
F01Y	.25cc yellow straws,for freezing DT embryos 3 or more packs
F03	.25cc clear RWB straws,for freezing DT embryos. Use w/yellow plugs. 3 or more packs
F02	.5cc clear straws 3 or more packs

Straws with Wick & Powder (W&P), Radiated, DT

Yellow .25cc IMV straws, sterile, printed DT for direct transfer. 5 straws per bag; 4 bags (20 straws) per pack. Special order item.

DT6300	.25cc yellow, DT 10 or more
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Straws W&P, Bulk, Not Radiated

Standard wick and powder seals one end of this IMV straw. Package of 2000 straws, not radiated.

F04	.25cc clear RWB straws.
F06	.25cc clear straws
F04Y	.25cc yellow straws
F07	.5cc clear straws

Agtech straw Connector

Yellow straw connector from Agtech is versatile allowing for one end to fit inside a .25cc straw and the other end to fit inside a .5cc straw. Connectors are 18mm long. Connectors are packaged 5 connectors per zip-lock bag and then are radiated; 10 bags/50 connectors.

F15B	Agtech adaptable connector 18mm long, yellow 3 or more packs
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Agtech straw Sealing Plugs

Packaged 5 connectors per zip lock bag, radiated; 10 bags (50 connectors) per pack.

F15WT	Agtech .25cc plug. 47mm long. White 3 or more packs
F15LL	Agtech .25cc plug. 47mm long. Yellow 3 or more packs



Sealing Powder

Instantly seals the non-W&P end of straws when it comes into contact with water. Powder is polyvinyl chloride. 1 lb. bag.

B4-1050	
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Tweezers

A correctly designed 6.5" (16.51cm) long polyester tweezer for quick and easy removal of straws and goblets from canisters. They are shaped with a specially grooved tip that grips and surrounds the straw, yet does not crush it. Plastic transmits little heat or cold. Individually wrapped.

F14A	for .5cc straws
F14B	for .25cc straws

Straw Cutter

The Cito straw cutter is designed to quickly cut off the sealed end of straws. After insertion of straw, a push of a button cuts the straw at the proper length. Disassembles for cleaning and disinfection. It is made of non-corrosive plastic with a stainless steel blade and is 2.25" (5.72cm) in diameter.

F16	
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Heat Sealer, Electric

8" sealer used for thermal sealing of straw ends and sterilized tubing.

F11	110 volt
F11A	220 volt

Repair Parts

F12	Top Teflon cloth
F12A	Metal heating element
F12B	Insulating underpad

Equine Vitrification Kit, Bioniche

- First commercial equine vitrification kit in the world!
- Freeze equine embryos without the need for additional electronic equipment.
- Easy to use kit comes complete with detailed instructions



Formulation : One x 8ml vial of each: VS1-Vitrification Sol'n,VS2-Vitrification Sol'n, VS3-Vitrification Sol'n, VS Diluent-Vitrification Diluent. Note: The manufacturer highly recommends the use of RWB 1/4cc straws, item F03 page 15, because of their resistance to splitting during the freezing process. No refrigeration required.

EQU030	
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F04 - F07



F15B



F15WT



F15LL



B4-1050



F14A - F14B



F16



F11 - F11A



F12 - F12B



EQU030

16 Goblets/Canes, Equine AVs/Accessories



B4-7430 - B4-7609



F30 - F31



F09A - F09AY



TLS-2200



F10



C19391N

61625



SAVB-104



SAVL-102-25



C15245N



SAVF-102-25

Goblets

Durable plastic goblets attach to canes for holding straws in nitrogen tanks. 10mm goblets hold 3-4 .5cc straws or 4-5 .25cc straws. 13mm goblets hold 5-6 .5cc straws or 6-7 .25cc straws.

B4-7430	10mm clear goblets. 200/pack
B4-7439	10mm yellow goblets. 200/pack
B4-7440	13mm clear goblets. 150/pack
B4-7609	13mm yellow goblets. 150/pack

Canes, Aluminum

Aluminum canes for holding goblets.

F30	11" cane holds two 10mm goblets, 100/pk.
F30C	11" cane holds two 10mm goblets, Case of 1,000
F31	11" cane holds two 13mm goblets, 75/pk.
F31C	11" cane holds two 13mm goblets, Case of 1,000

Cane ID Tabs

Aluminum tabs for marking 10mm or 13mm canes. Pack of 100 tabs.

F09A	white
F09AY	yellow

Thermal Labeling System

An easy and legible method for labeling embryo straws, goblets and canes. The hand-held, battery operated TLS-2200 allows you to quickly and effortlessly create sharp professional labels for:

- .25cc straws
- .50cc straws
- Sealing plugs
- Plastic goblets and aluminum canes

Label material, adhesive and ink are 100% stable in liquid nitrogen and will not detach or rub off. Clearly a superior method for labeling your valuable embryo containers. Weighing in at just 2.75 lbs (1.25kg) it's the only bar code/label printer that you can hold in just one hand.

Unit is powered by a detachable 12v battery which is rechargeable when connected to a 110v electrical source.

TLS-2200 labeling system includes: Labeler, printer ribbon, rechargeable 12v battery (use 110v for charging.)

TLS-2200

Labels and parts for TLS-2200 Labeler

Thermal labels are 100% nitrogen stable. Each roll contains 250 labels.

PTL-19-427	White labels for .25cc straws. 1" x .5" print area
PTL-19-427-YL	Yellow labels for .25cc straws. 1" x .5" print area
PTL-32-427	White labels for .25cc straws. 1.5" x .5" print area
PTL-32-427-YL	Yellow labels for .25cc straws. 1.5" x .5" print area
PTL-1375	Yellow labels for .25cc straws, 1.375" x 1.0" print area
PTL-19-642	White labels for 0.5cc semen straws, 1" x .5" print area
R4310	Replacement ribbon, black
PCK-5	Printer head cleaner kit

Marking Pen

Ultra fine, permanent black ink, "Sharpie" marker.

F10

AV Cover, Neoprene

Insulated cover with four Velcro straps. Washable and holds AV better than leather.

C19391N



16" Missouri A.V.

- Lighter and easier to handle than the CSU model

61625



16" Missouri Model A.V. Kit

- New filling hose, cotton filters
- Comes complete with 16" latex AV, neoprene cover, two collection bottles, bottle adapter, cotton semen filters, no spray filling system.

61629



Colorado Bladder

- Molded from natural latex rubber
 - Acts as a water retention barrier inside the AV Case
- Two 7" x 5/8" rubber bands are required to secure the bladder to the AV case.

SAVB-104 22" flared end bladder



Colorado Disposable Liners

22" Soft, flexible plastic film with tapered end to connect to the collection bottle and a flared end for easy assembly. Extra soft plastic provides a softer feel, while standard provides superior durability. From ARS.

SAVL-102-25	Extra soft, 25 liners
SAVL-101-25	Standard, 25 liners



Semen Cotton Filter

Equine artificial vagina semen cotton filter - 6" x 2-1/4"

C15245N 25/bag

Semen Filters, Equine

- Non-absorbent nylon mesh
- Fits inside disposable collection bottle

This ARS filter allows the sperm rich fraction of the ejaculate to pass into the collection bottle while the excess gel, smegma and debris are captured for easy disposal.

SAVF-102-25 pack of 25

AV Sheep & Goat

Complete artificial vagina is 8" long and 2.25" in diameter. Fitted with air and water filling valve. Complete with pressure rubber bands, latex semen collecting bag and 15ml graduated Pyrex collection vial.

1390	Complete sheep & goat A.V.
1437	A.V. inner liner
1438	A.V. cone

AV, Bovine

- No danger of injury to bull

Casing made of molded rubber with just the right amount of rigidity. Smooth finish inside and out with nicely rounded ends making it easy to clean. Provided with 5/8" water filling hole, fitted with screw cap water filling valve. Complete unit consists of the 16.5" casing, which is suitable for all size bulls, one inner liner, one director cone, one graduated semen collecting vial and one water filling valve with securing bands.

14709	Complete Bovine AV
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AV Liners and Cones, Bovine

Cones and liners are manufactured from high quality latex rubber and are individually wrapped.

7130	Smooth liner w/end cone, 26" (66.04 cm) long
7125	Rough liner w/end cone, 26" (66.04 cm) long
7110	Heavyweight end cone, 12.25" (31.11cm) long
7100	Lightweight end cone, 12.25" (31.11 cm) long

AV End Cone Disposable, Bovine

Plastic disposable end cone for bovine, 11" (27.94 cm) long.

B2-7000	100/box
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*Slide Warmer

- Precision Temperature Control
- Teflon coating for easy cleaning
- Rugged portable design

Designed to keep slides, cover slips and glassware at the optimum temperature for motility testing. The aluminum heating surface measures 7" x 11" and is Teflon coated for easy cleaning. The unit features a precision solid state temperature control that is factory calibrated at 37° C (98° F) or 39° C (102.2° F) and is housed in a durable plastic case with a carrying handle for portability. The hinged lid may be closed when not in use and the detachable power cord stores inside the case. The Slide Warmer will operate on any 115 VAC outlet. For international purchases, a 230V model is available.

581A-201	Slide Warmer 37° C
581A-202	Slide Warmer 230 volt, 37° C
581A-209	Slide Warmer 39° C

*Electrojac® 6 - Wireless Remote Control

Ideal®

- Wireless remote control with dwell button for easier, stumble-free use
- Water resistant electronics and casing
- More cycles, more power
40 cycles that now deliver 5% more power
- Cycle beep alerts (cycles 1, 30, 40)
Allow the user to focus more on the animal
- Automatic shutoff prevents unnecessary battery usage
- Improved probe for easier insertion and enhanced durability

Ideal's Complete System.

- The only semen collection system that is completely portable and powerful enough to run all day.
- Gel cell battery allows more than 250 collections on a single battery charge.
- In manual mode, the intensity is controlled by adjusting the manual control so that continuous voltage is applied to the probe's electrodes.
- In automatic mode the circuit delivers a series of 32 cycles, with each cycle delivering a slightly higher intensity. Each cycle last 2 seconds, followed by a 2 second pause. Designed to go through all 32 cycles unless interrupted by either the on - off switch or dwell switch.
- The dwell switch is used to control automatic pulses. With the dwell switch depressed and held, the system will remain at that pulse (2 sec. on, 2 sec. off) until the switch is released.

Complete portable system includes the ejaculator, 2" probe, 110v AC adapter/charger, probe cable assembly (20'), dwell cable assembly (20'), collection cone assembly, scrotal tape, 12v battery, manual, electronics instrument case w/strap and carrying case.

12 month warranty. Replacement probes are available, please ask your sales representative for more details.

H29AAA	Complete System with 2.5" probe
H29AAB	Complete System with 1" probe
H29AAC	Complete System with 2" probe
H29AAD	Complete System with 3" probe

“As a customer you feel as though Agtech is a partner in your business, they are genuinely concerned about you and your business.”

L. Britton, WY



1390



14709



7130 - 7100



B2-7000



581A-201



* Catalog items with a * are not stocked. Please allow 7-9 days for product delivery.



H25

***Pulsator IV**

Lane Manufacturing

The Pulsator IV has three modes of operation - 'manual', 'program' and 'learn.' It is lightweight and can be operated by its internal battery or an 110v external power supply. It's the only ejaculator with a 5- year warranty!

- Compact design, lightweight less than 10 lbs
- Program mode has a pre-programmed collection sequence that allows operator to increase or decrease the pre-programmed stimulus
- Can drop program and go fully manual to give operator complete control
- Manual mode with 9 level limiting step switch and re-start control
- 5 year warranty on parts and labor and 1 year on the battery
- Complete kit includes; Pulsator IV machine, battery charger, 110v power supply, 1 probe (your choice of size: 60,75 or 90 mm), 2 probe cords, scrotal tape, semen collection handle, 100 disposable cones, vials and instructions.

H25	Complete System with medium probe for Bulls
H25-60	Small probe, 60mm diameter, for bulls <1500lbs
H25-75	Medium probe, 75mm diameter, for bulls between 1500-2000 lbs
H25-90	90mm diameter, for bulls >2000lbs
H25R	Ram probe, 1.25" diameter

Semen Extender, Bovine & Caprine

- Two step extender
- Prepared free of microbial contamination under FDA registered lab.
- Makes 1,000ml of CSS approved extender.

Two bottles of concentrated solutions of distilled sterile water containing tris buffer, citric acid and fructose. One bottle also contains glycerol. Water and egg yolk (not included) must be added prior to the addition of semen. Comes with a vial of powdered antibiotics tylosin tartrate, gentamycin sulfate, lincomycin and spectinomycin. When all contents are combined 1,000ml of CSS approved extender is produced.

B2-7500	Two step extender
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Whirl Pak bags

Sterile, resealing bags with write on strip.

EP06	6oz (177 ml) bags, 100/pk
EP06A8	18oz (500ml) 500/pk



Centrifuge tubes - 50ml

These popular 50ml sterile conical bottom centrifuge tubes are made of ultra clear polypropylene copolymer. For holding extended semen during centrifugation. Printed graduations and smooth inner walls for easy filling and sample preparation. Autoclavable at 122°C. Freezable to -90°C. Thick wall construction for high speed operation, centrifuge to 15,000g, leakproof packaging, RNase-, DNase, and endotoxin free, FDA CFR21 Compliant. 29mm dia x 115mm length, 25 sterile tubes/rack.

21008	centrifuge tubes
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Centrifuge tubes - 15ml

15ml graduate, disposable tubes with conical bottom and flared open end. Made of clear PVC. 100 tubes per box.

L14C	centrifuge tubes
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E-Z Mixin® Semen Extenders

Each E-Z Mixin® Semen; "CST", "BF", and "OF" kit consists of two components. Component A is a plastic bottle of USP purified water and Component B is a hermetically sealed package containing the dry powder formula. All extenders are 2 day transit.

- Inexpensive
- Easy to Prepare
- Will enhance fertility of most stallions
- Due to the sensitivity of these products E-Z Mixin Semen Extender cannot be returned.



E-Z Mixin® "CST" Standard Formula

Contains the antibiotic Amikacin and is recommended for cooled semen programs where the semen must be stored for extended periods and/or transported.

E-Z Mixin® "CST" is also ideal for immediate on-farm use when an extender without Polymyxin B Sulfate is desired.

EZM-CST	1 kit
	24 or more kits

E-Z Mixin® "BF" Standard Formula

Contains no antibiotic. It is designed for the experienced veterinarian or breeder who wishes to add his/her own choice of antibiotic(s). E-Z Mixin® "BF" Extender is recommended when certain pathogens require specific antibiotics or an antibiotic that may enhance survival of spermatozoa from a particular stallion. E-Z Mixin® "BF" is also used as a centrifugation media for frozen semen operations.

EZM-BF	1 kit
	24 or more kits

E-Z Mixin® "CST+" w/ Potassium Penicillin G

A popular cooled, stored and/or transported extender with the addition of Potassium Penicillin G in a pull-apart capsule. The combination of Amikacin and Potassium Penicillin G has been shown to increase motility in some stallions.

EZMP-CST	1 kit
	24 or more kits

* Catalog items with a * are not stocked. Please allow 7-9 days for product delivery.



B2-7500



EP06



21008



L14C



E-Z Mixin® “BFT” w/ Ticarcillin

E-Z Mixin® “BFT” is ARS’s latest extender formula for cooled, stored and/or transported semen. This extender includes a pull-apart capsule containing Ticarcillin and is recommended for stallions that have problems shipping in Amikacin based formulas.

EZMTD-BF 1 kit
24 or more kits

E-Z Freezin™ Semen Extenders

E-Z Freezin™ Semen Extenders are recommended for use in equine frozen semen breeding programs. Used to freeze semen in liquid nitrogen for long-term storage. Two E-Z Freezin™ Semen Extender formulas, Lactose EDTA (“LE”) and Modified French (MFR5), are available for freezing semen. Semen from individual stallions should be tested in both formulas to determine which yields the best results. Both formulas are sold in 15 ml hermetically sealed packets.

Frozen, Overnight Shipping Required. E-Z Freezin™ Semen Extender orders will be shipped using overnight service to minimize the risk of thawing. Because this product requires an insulated inner container, dry ice, and an outer corrugated box for shipment, a \$15 packaging fee will be added to each order in addition to overnight delivery charges. Due to the temperature sensitivity of this product, return of E-Z Freezin™ Semen Extender is not accepted.

E-Z Freezin™ “LE” Equine Semen Extender

“LE” is a Lactose EDTA formula that contains the antibiotic Ticarcillin. Allows semen to be processed at room temperature with no cooling period required prior to freezing. Each E-Z Freezin™ “LE” lot is evaluated by the Colorado State University Animal Reproduction and Biotechnology Laboratory to ensure a superior product. Sold in 15ml hermetically sealed, foil-lined packets.

EZF-LE 1 packet

E-Z Freezin™ “MFR5” Equine Semen Extender

A modified French formula that contains the antibiotic Ticarcillin. E-Z Freezin™-“MFR5” requires semen to be cooled slowly to 5C (41F) prior to undergoing the freezing process. Each E-Z Freezin™ “MFR5” lot is evaluated by the Colorado State University Animal Reproduction and Biotechnology Laboratory to ensure a superior product. Sold in 15ml hermetically sealed, foil-lined packets.

EZF-MFR5 1 packet

Hancock Equine Semen Stain

An Eosin-Nigrosin stain used to determine the number of live-dead spermatozoa in an ejaculate and to analyze morphological characteristics. Spermatozoa with intact cell membranes will not absorb the stain while those with damaged cell membranes will absorb the stain and appear darker. Doesn't require refrigeration.

HCS-101 10ml bottle

***591B Densimeter Kit**

- Quickly and accurately estimate sperm concentration
- Built-in “Expert System” for evaluating direct transfer and cooled semen
- Includes E-Z Records™ Equine software for recording data and report generation
- Automatically perform calculations required to create appropriate insemination doses.
- Built-in storage and retrieval of collection data

Housed in a sturdy, lightweight plastic and metal casing, measuring 9"x8"x4" with an approximate weight of 2 lbs. The front panel has a 20-button keypad and an illuminated liquid crystal display (LCD) panel. On the back is the power switch, power receptacle and a RS232C Serial Communications Port which is used for connection to a personal computer.

Densimeter kit includes a universal power supply (120V / 240V operation), 12 volt car adapter, instruction manual, required peripheral equipment, alternate calibration loader CD, and a copy of ARS's publication “Techniques for Collection, Evaluation and Insemination of Stallion Semen, 3rd Edition”.

Additional species calibrations, semen processes or alternate tests may be purchased separately.

DENK-701 Kit for Equine
DENK-907 Kit for Bull

***590B Densimeter Kit**

- Portable, ideal for mobile operations
- Affordable sperm concentration measurement
- Same superior accuracy as 591A Densimeter
- Built-in Battery Charger charges nickel metal hydride and nickel cadmium batteries.

A smaller Densimeter, approximately 7" x 5" x 3.5", with a built-in battery charger. All calculations on processing semen must be performed manually unless the 590a Densimeter is connected to a computer with the optional E-Z Records “Equine software. The 590a Densimeter / E-Z Records” Equine software combination will solve the same calculations performed by its larger cousin, the 591A Densimeter. This combination is also designed to keep track of information about the farm, stallions, collections, does and booked mares for the user. Convenient reports on each collection, stallion and mare may be printed, as well as dose shipment reports.

The 590a Densimeter comes loaded with one, and is designed to hold up to two, species calibrations at any given time. Additional species calibrations may be purchased and downloaded into the Densimeter by the user. The 590a Densimeter also includes a calibration which directly displays the percent transmission of the sample. Includes a universal power supply (120V / 240V operation), instruction manual, equipment and disposable supplies to perform the first 100 measurements, alternate calibration loader CD, and a copy of ARS's publication “Techniques for Collection, Evaluation, and Insemination of Stallion Semen, 3rd Edition”.

DENK-1001 Kit for Equine
DENK 1007 Kit for Bull

***Optional Additional Species Calibrations**

Additional species calibrations to add to your 591B or 590B Densimeter. Please specify Densimeter model number when ordering.

BUX Bull



HCS-101

- Each Densimeter kit includes equipment and supplies to perform the first 100 measurements:
- A 180ul fixed volume positive displacement pipette.
 - A rack of 100 disposable pipette tips.
 - Formalin dispenser w/solution
 - A bag of 100 4ml plastic disposable cuvettes and caps
 - Box of Kimwipes



DENK-701



DENK-1001



*Equitainer I

- The "Gold Standard" for cooled transported semen.
- Keeps its Temperature in the Cargo Hold of a Plane.
- Can be Opened by Airport Security without Harming the Sample.
- Perfect for International Shipping
- Cools and Maintains Semen up to 70 hours

The Equitainer has gained the reputation as the preferred cooled semen transporter trusted by veterinarians, universities and breeders around the globe. The Equitainer I is constructed of molded polyethylene and copolymer, designed to withstand the rigors of repeated shipping. The spring lock, internal rubber ring and inherent insulation capability of the Equitainer create a airtight seal and maintain internal temperature. Dimensions: 17 3/4 in. in height, 10 in. diameter. Shipping Weight (fully loaded): 11 pounds. Two styles are available, see table at right.

Tube Style	Cup Style
1 Equitainer I Container	1 Equitainer I Container
1 Tube Style Isothermalizer which holds specimens in two 50ml centrifuge tubes	1 Cup Style Isothermalizer which holds semen in traditional Whirl-pak bags.
2 Freezer Cans	2 Freezer Cans
6 Centrifuge Tubes (50 ml)	2 Ballast Bags
1 Spring Lock	1 Sterile Cup
Warning Label	1 Spring Lock
Instruction Booklet	Warning Label
Perfect for shipping cooled embryos	Instruction Booklet
HT1	HT1C

*Manual Straw Filling, Sealing System

- For smaller volume collections
 - Output per hour is approximately 400 .5cc straws, PVC sealed.
- Complete system includes:
- vacuum pump
 - pump connecting tube
 - filling nozzle (holds 15 straws)
 - 4 straw clips
 - disposable bubbler (holds 25 straws)
 - stainless steel bubbler
 - 2000 .5cc straws
 - 1kg PVC sealing powder

Please specify 110v or 220v. Consult your Agtech sales representative for further details.

SM252

Semen Freezer, Manual from Life Automation

Freezer uses liquid nitrogen to cool chamber.

Semen Freezing is achieved by holding filled & sealed straws in vapor phase of nitrogen.

100% stainless steel construction

2 position tray with self locking supports to avoid accidental release.

Adjustable and visual cycle start & end indicators.

One internal thermocouple to monitor chamber temp.

Easy to use drain hole to recover unused liquid nitrogen.

Capacity = 25 straws per cycle

Freezing rack also has slots for 5 10mm goblets to be vertically pre-chilled.

Voltage - 115 to 230 VAC

Unit will also operate off of 12V DC auxiliary power cord with cigarette lighter adaptor.

Consumes 1L of nitrogen per cycle

Weight - 21lbs

Dimensions - 15" X 9.5" X 13"

5 year non-transferrable warranty

Made in the USA

H100



Electronic instruments require 110/115 volt input unless otherwise noted.

“You carry all of the products I need for my applications. Advised me on durability and practicality/popularity of products. Always appreciated.

I very much appreciate your dedication to having supplies always in stock. Moreover, please take the time on my behalf to celebrate your warehouse/shipping crew. I have never returned a product or received the wrong item or number of items. These people are really the backbone of your reputation. On time, accurate delivery without damage ever to a product. My thanks personally to the warehouse team!”

R. Monson, WI

BioTherm™ Transportable Incubator

BioTherm™ Transportable Incubator is designed to maintain live cell cultures, gametes and tissues at appropriate metabolic temperatures. The BioTherm™ incubator provides both excellent temperature uniformity, ensuring less than 0.05°C temperature variation between specimens, and high thermal stability giving less than 0.05°C overall temperature fluctuation. The heating element provides distributed heating and has been designed to maximize temperature stability. Distributed temperature sensing ensures the whole block rapidly reaches uniform temperature. Incubator is fully insulated to minimize heat loss. Ideal for applications requiring portable temperature control within the range of 32.5°C to 40.0°C, selectable in steps of 0.5°C.

The BioTherm™ Transportable Incubator may operate in three modes:

- From two internal 6V sealed lead acid batteries or
- From main power or
- From external 12V power source with BioTherm™ Car Cable

With a large range of warming blocks for various applications this transportable incubator provides a cost effective solution to suit a wide variety of on and off site sampling requirements. Specimen tubes of various dimensions to suit most applications can be accommodated in the thermally conductive blocks. All blocks are made of high grade, non porous anodized aluminum. These blocks can be removed by the user to clean, dry heat sterilize or interchange. The range of blocks can accommodate tubes of various shapes and sizes from 1.8ml to 50.0ml.

The BioTherm™ Transportable Incubator is supplied with one block as standard. Currently, nine block models are available to choose from.

Features

- Easy to use
- Compact and light weight for easy transport
- Rugged construction
- Inbuilt battery charger
- Fully removable insulated lid to provide easy access to the block for loading and cleaning
- Recessed control panel to avoid accidental selection of control switches
- Holding time greater than 30 hours
- Select from a range of removable blocks

Specifications

- Selectable Temperature Range: 32.5°C to 40.0°C
- Temperature Steps: 0.5°C
- Holding Time: > 30 hours at 40.0°C, battery fully charged
- Thermal Fuse Trip Point: 55°C
- Batteries: 2 x 6Vx 4Ah, sealed lead acid
- Battery Dimensions: Typical 70x46x105 (WxDxH) mm
- External Dimensions: 275 x 212 x 258x (WxDxH) mm
- Weight: 6kg (including batteries)

BT-RB	Portable incubator with 1 removable core
BTB-V	Battery replacement pair (2) for BioTherm Incubators

Choose one of the 9 core configurations below when ordering.



A12/1 Core		F6/6 Core		L14/14 Core		G17 Core			
Capacity:	12 x tubes (15mm dia. x 94mm) 1 x 14 or 15ml tubes (17mm dia. x 98mm)	Capacity:	6 x 14 or 15ml tubes (17mm dia. x 96mm) 6 x 6ml tubes (12mm dia. x 63mm)	Capacity:	14 x 1.8ml cryovials (13mm dia. x 30mm) 14 x auto-sample tubes (8.5mm dia. x 98mm)	Capacity:	17 x 5 or 6ml tubes, (12mm dia. x 63mm)		
Product Code:	BT-INC-A12/1	Product Code:	BT-INC-F6/6	Product Code:	BT-INC-L14/14	Product Code:	BT-INC-G17		
V12 Core		E10 Core		M2/E4 Core		M2/G8 Core		M3/G4 Core	
Capacity:	12 x 10ml tubes, (16mm dia. x 92mm)	Capacity:	10 x 14 or 15ml tubes (17mm dia. x 98mm)	Capacity:	2 x 50ml tubes (30mm dia. x 98mm) 4 x 14ml or 15ml tubes (17mm dia. x 98mm)	Capacity:	2 x 50ml tubes (30mm dia. x 98mm) 8 x 5ml tubes (12mm dia. x 63mm)	Capacity:	3 x 50ml tubes, (30mm dia. x 98mm) 4 x 5ml tubes, (12mm dia. x 63mm)
Product Code:	BT-INC-V12	Product Code:	BT-INC-E10	Product Code:	BT-INC-M2/E4	Product Code:	BT-INC-M2/G8	Product Code:	BT-INC-M3/G4

«Quick response and quick deliveries, although we are a "small" customer from Europe»
 J. Andersen, Denmark

FREEZE CONTROL® SYSTEMS

Freeze Control® Systems controlled-rate Liquid Nitrogen freezers precision engineered for cryopreservation of biological specimens. Systems are modular and parts are interchangeable. Each system consists of a Temperature Controller, Cryochamber, Cryobath, and Carry Case. No special installation is required. Systems can be quickly set up and packed away. You select from the range of Temperature Controllers and Cryochambers to configure a system which best suits your need.



Standard Systems

8800i System

- The standard 8800 system includes:
- CL8800 programmable temperature controller
 - CC23 Standard Cryochamber
 - LNS Standard Bath
 - ML Medium Lid
 - CB Carry case
 - CG5 CryoGenesis software

8800SYS

5500 System

- The standard 5500 system includes:
- CL5500 temperature controller with built in P10 Power Pak
 - CC23 Standard Cryochamber
 - LNS Standard Bath
 - ML Medium Lid
 - CB Carry case
 - UPB Battery for P10

5500SYS

3300 System

- The standard 3300 system includes:
- CL3300 temperature controller
 - One CC23 Std Cryochamber
 - LNS Standard Bath
 - ML Medium Lid
 - CB Carry case
 - CG5 CryoGenesis software

3300SYS

2200 System

- The standard 2200 system includes:
- CL2200 temperature controller
 - CC23 Standard Cryochamber
 - LNS Standard Bath
 - ML Medium Lid
 - CB Carry case

2200SYS

All controllers can be run from a dedicated power pack.

CL8800i

- Control Range: +40°C to -120°C
- Preinstalled Programs: 16
- User programmable
- The CL8800i Temperature Controller can be preprogrammed with up to 16 temperature programs. It is also programmable when operated with a computer (IBM compatible) using CryoGenesis™ V4 and V5 software. It includes a temperature logging module and allows actual temperature progress to be monitored and recorded in the computer (when used). It is ideal for critical clinical applications where precise control over a wide temperature range is desired, and quality control recording is mandatory.

CL5500

- Internal Battery Power Pack
- Control Range: +20°C to -43°C
- Preinstalled Programs: 8
- The CL5500 is a preprogrammed Temperature Controller with an internal Program Chip that contains up to 8 different temperature programs (protocols). The CL5500 has a built in Power Pack and battery charger, and can be run from mains, from internal battery, or from an external 12V source. It is ideal for "in the field" use, or for use in regions where mains power is not reliable.

CL3300

- Control range: +40°C to -120°C
- User programmable
- The CL-3300 is a programmable Temperature Controller which can be operated only with a computer (IBM compatible) and the CryoGenesis™ V4 or V5 software for Windows.

CL2200

- Control Range: +20°C to -43°C
- Preinstalled Programs: 4 standard programs with space for an additional 4 programs (8 total). The additional 4 programs of your choice may be added with purchase of the CEP4 chip
- The CL2200 is a preprogrammed Temperature Controller with an internal program chip (CEP) that contains up to 8 different temperature programs (protocols). It is ideal for routine cryopreservation applications.

- Cryopreservation systems and accessories are not stocked. Please allow 7-9 days for delivery. CryoLogic provides a 2 year repair or replace warranty on Freeze Control® equipment, against defects in materials and workmanship. Warranty documentation is included in the equipment's operating manual.



FREEZE CONTROL® CRYOCHAMBERS

A range of Freeze Control Cryochambers is available to suit different applications with cooling rates appropriate for most protocols. Cryochambers are interchangeable.

The design ensures symmetrical heat transfer from all specimens to liquid nitrogen. The chamber stands directly in liquid nitrogen in the cryobath and is connected to the controller which regulates the temperature of the specimens. The highly conductive material used for the chamber ensures a very high degree of temperature uniformity of each specimen whether liquid nitrogen levels are high or low. Specimen temperature is monitored continuously and is measured by a precision Platinum temperature sensor permanently mounted in the core.

Straw Standard Cryochamber

- Maximum Capacity: 23 x 0.5ml or 46 x 0.25ml straws
- Dimensions: 55mm diameter x 150mm tall
- Maximum Cooling Rates: Rate at 20°C is 8°C/min. Rate at -40°C is 5°C/min
- The blue foam lifter is designed to secure .25cc straws in the slots, and minimize convection within the chamber core. Each slot may contain: One .5cc straw or two 0.25cc straws. If 0.25cc straws are used, 2 straws per slot are recommended to ensure good thermal contact with the wall of the core.

CC23S

Straw Fast Cryochamber

- Maximum Capacity: 23 x 0.5cc or 46 x 0.25cc straws
- Dimensions: 55mm diameter x 150mm tall
- Maximum Cooling Rates: Rate at 20°C is 16°C/min. Rate at -40°C is 10°C/min
- Recommended for Semen

CC23F

5 Slot Ampoule or Straw, Fast Rate Cryochamber

- Maximum Capacity: 15 x 1.0ml, 10 x 2.0ml or 5 x 5.0ml cryovials
- Maximum Capacity: 55 x 0.5cc, 85 x 0.25cc straws or 45 x CBS straws™
- Dimensions: 55mm diameter x 150mm tall
- Maximum Cooling Rates: Rate at 20°C is 6°C/min. Rate at -40°C is 3°C/min.
- Each slot (5 slots total) may contain: 3 x 1.0ml cryovials, 2 x 2.0ml cryovials, 1 x 5.0ml cryovial, 11 x 0.50cc straws, 17 x 0.25cc straws, or up to 9 CBS straws™

The versatility of this chamber is achieved based on which lifter is placed into the chamber. Price includes 1 lifter. Please specify which lifter you require from the selection below:

1. L45 for CBS straws
2. L85 for 0.25cc straws
3. L55 for 0.50cc straws
4. L5A for ampoules

CC5F

5 Slot Ampoule or Straw, Standard Rate Cryochamber

- Maximum Capacity: 15 x 1.0ml, 10 x 2.0ml or 5 x 5.0ml cryovials
- Maximum Capacity: 55 x 0.5cc, 85 x 0.25cc straws or 45 x CBS straws™
- Dimensions: 55mm diameter x 150mm tall
- Maximum Cooling Rates: Rate at 20°C is 6°C/min. Rate at -40°C is 3°C/min.
- Each slot (5 slots total) may contain: 3 x 1.0ml cryovials, 2 x 2.0ml cryovials, 1 x 5.0ml cryovial, 11 x 0.50cc straws, 17 x 0.25cc straws, or up to 9 CBS straws™

The versatility of this chamber is achieved based on which lifter is placed into the chamber. Price includes 1 lifter. Please specify which lifter you require from the selection below:

1. L45 for CBS straws
2. L85 for .25cc straws
3. L55 for .55 straws
4. L5A for ampoules

CC5S

Security Straw Standard Cryochamber

- Maximum Capacity: 20 x CBS Straws™ or 40 x 0.5cc or 60 x 0.25cc standard straws
- Dimensions: 55mm diameter x 150mm tall
- Maximum Cooling Rates: Rate at 20°C is 7°C/min. Rate at -40°C is 4°C/min
- Each slot (5 slots total) may contain: 1 x CBS Straw™, 2 x 0.5cc straws, 3 x 0.25cc straws.
- If 0.5cc/0.25cc straws are used, 2/3 straws per slot are recommended to ensure good thermal contact with the wall of the core.

CC20S

Security Straw Fast Cryochamber

- Maximum Capacity: 20 x CBS Straws™ or 40 x 0.5cc or 60 x 0.25cc standard straws
- Dimensions: 55mm diameter x 150mm tall
- Maximum Cooling Rates: Rate at 20°C is 14°C/min. Rate at -40°C is 8°C/min

CC20F

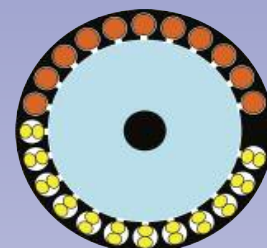
60 Ampoule Fast Cryochamber

- Maximum Capacity: 60 x 1.0ml or 60 x 2.0ml cryovials
- Dimensions: 190 x 170 x 230mm
- Maximum Cooling Rates: Rate at 20°C is 5°C/min. Rate at -40°C is 3°C/min

CC60AF



Cryochamber



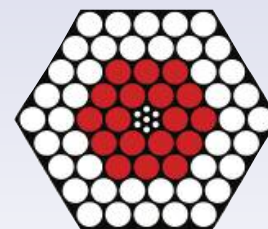
CC23 Core



CC5 Core



CC20 Core



CC60 Core

OPTIONS AND ACCESSORIES

The Freeze Control product range includes a variety of options and accessories, allowing you to customize your system.

Large CryoBath

Capacity of 3.8 litres, allowing approximately 4 hours of continuous operation before refilling is required.

LNL	Large CryoBath
-----	----------------

Small CryoBath

Capacity of 1.5 litres, giving approximately 2 hours of run time before a refill is needed.

LNS	Small CryoBath
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CryoChamber Lids

SL	Standard Cryochamber Lid 20mm
ML	Medium CryoChamber lid 60mm
VTL	Tall CryoChamber lid 120mm

Power Pak

The P10 is a dedicated Power Pack. It is designed to provide an alternative source of power to the freezers when there is a power failure, or when a mains source is not available. It also has a built in charger, which will recharge the battery from mains. May be used in three ways: From mains as an uninterruptible power supply, from an internal battery—away from mains, or from an external 12 Volt Source.

P10	Power Pak includes UPB Battery
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PCAB	Car Cable Specifically designed for connecting the P10 or CL5500 Temperature Controller, to an external 12V source, commonly a motor vehicle 12V electrical system.
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Custom EPROM

Internal program chip. Submit your new program requirements and clearly identify the machine for which the programs are required, including Type and Serial Number. The new program information is installed on a chip and is dispatched with listings and graphs, and instructions for removing the old chip and installing the new one. Program Chips cannot be exchanged between different model controllers.

CEP4	Custom Chip, 1-4 programs
CEP8	Custom Chip, 1-8 programs
CEP16	Custom Chip, 1-16 programs

CryoChamber Specimen Lifters

• Cryochambers can be supplied with Lifters to suit a variety of applications.

Lifters for 5 Slot Cores

L45	For CBS straws, .5cc
L85	For .25cc straws
L55	For .55 straws
L5A	For ampoules

Lifters for 23 Slot Cores

L23	Standard .25cc & .5cc Straw Lifter
LC	Short Straw Lifters .25cc & .5cc

Carry Cases

The Horizontal Carry Case accommodates all standard Freeze Control' systems with a 1.5 litre Cryobath where the Upright Carry Case has been designed to accommodate all standard systems with the larger 3.8 litre Cryobath. Their rugged construction and internal foam cushioning provide protection during shipping or storage, with a total weight of 9-15 kilograms (depending upon system specifications).

CBS	Horizontal Carry Case
CBL	Upright Carry Case

Why Agtech recommends CryoLogic Freeze Control® Systems

• Reliability

Proven reliability, proven performance, numerous publications, manufactured by CryoLogic for over **20 years**

• **Cost** Range of low cost to medium cost systems to suit a variety of budgets

• Cryochambers

Wide variety of Cryochambers types for 0.25ml, 0.5ml, CBS straws and Cryovials. Cryochambers with different maximum cooling rates for different specimen Types

• Cryochamber Lids

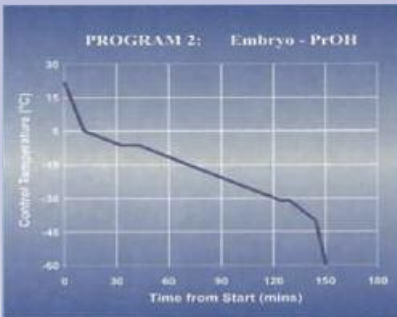
Different heights for different straw / plug lengths

• Cryobaths

Standard capacity and large capacity for different length freezing protocols

• Batteries

Standard, off-the-shelf, Sealed Lead Acid Batteries, user installable, for backup/operation in CL5500 and CLP10. No issues with battery transportation



BioTherm™ Smart Suite

BioTherm™ Smart Suite is a sophisticated modular system for precisely maintaining specimens at a pre-selected temperature between ambient and 55°C. The SmartSuite consists of a Command Station or Power Module together with one SmartDevice.

The Command Station powers and monitors SmartDevices. It allows the user to monitor and adjust temperature, identify error conditions and, recalibrates the SmartDevices. The Power Module provides regulated power to SmartDevices which operate at a preset temperature.

Command Station

With a Command Station you can adjust or monitor the temperature of SmartDevices in 0.1°C increments from ambient to 55°C; identify error conditions, and easily recalibrate SmartDevices using a built in calibration system. Can be used with any SmartDevice and is fully interchangeable if and when an upgrade is required. Weight 2.5lbs/1.1Kg, dimensions (LxDxH) 7x5x2 inches/180x130x56mm

CS1

Power Module

The Power Module operates with a single SmartDevice. It provides conditioned power for any SmartDevice with a preset temperature. Preset temperature can be factory programmed. Weight .7lbs/350g, dimensions 5x2x1 inches/132x58x30mm.

BTPM

SmartDevices are warming devices which incorporate state-of-the-art adaptive control distributing heat with precision sensing technology for fast and accurate temperature control. Temperature range is ambient to 55°C and temperature stability $\pm 0.1^\circ\text{C}$. SmartDevices regularly report their status and operating conditions to a Command Station.

SmartStage Device

Ideally suited to maintain stable specimen temperature while examining or analyzing specimens under a microscope. Choice of 12mm or 22mm viewing aperture that readily suits many microscopes. The heating element provides distributed heating with no hot spots. Thermal isolation of the stage minimizes heat loss to the underlying microscope platform. Weight 195g/.4lbs, dimensions (LxWxH) 4.4x4.4x.22inches/112x112x5.6mm. When ordering, specify desired pre-set temp between 2-55C.

SS12 12mm aperture microscope warmstage

SS22 22mm aperture microscope warmstage

SmartPlate Device




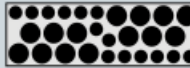


Designed for precisely maintaining the temperature of specimens awaiting analysis. A constant, stable temperature is maintained even when specimens are moved or media is added. Heat is distributed uniformly over the plate and is suitable for petri dishes, microscope slides and multi-well plates. Weight 640g/1.4lbs, dimensions (LxWxH) 9x6x8 inches/238x153x20.6mm. When ordering, specify desired pre-set temp between 2-55C.

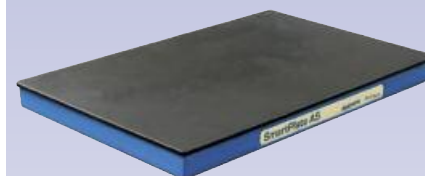
SPA5 bench top warm plate

SmartBlock Device

Designed to provide uniform dry heating for multiple sizes of sample tubes. The SmartBlock is insulated to minimize heat loss, provides uniform heat distribution without hot spots and rapidly reaches full temperature within 15 minutes at 40 °C. Blocks are interchangeable and are securely fixed to minimize heat loss and maximize temperature stability. They can be removed for block interchange, cleaning and sterilization. Weight 940g/2lbs, dimensions (LxWxH) 6.4x 3x5 inches/165x77x128.6mm. When ordering, specify desired pre-set temp between 2-55C. Choose from six standard block designs.

SmartBlock Devices

A12-1		F6/6		G17		L14/14		E10		V12	
											
12 microtubes (15mm Ø x 94mm) 1 x 14ml or 15ml tube (17mm Ø x 98mm)		6 x 14ml or 15ml tubes (17mm Ø. x 96mm) 6 x 5ml or 6ml tubes (12mm Ø x 63mm)		17 x 5ml or 6ml tubes (12mm Ø x 63mm)		14 x 1.8ml cryovials (13mm Ø x 34mm) 14 x auto-sample tubes (8.5mm Ø x 98mm)		10 x 14ml or 15ml tubes (17mm Ø x 96mm)		12 x 10ml tubes (16mm Ø x 92mm)	
Product Code:	SB01-YA	Product Code:	SB01-YF	Product Code:	SB01-YG	Product Code:	SB01-YL	Product Code:	SB01-YE	Product Code:	SB01-YV





* Catalog Items with a * are not stocked. Please allow 7-9 days for product delivery.



HO8A



***Meiji EMZ-5**

- Recommended for embryo work.
- Continuous zoom magnification from 15x to 90x.
- 20x Eyepieces
- Image remains clear & sharp throughout entire range
- Crisp, high resolution, precision optics provide an excellent, erect, un-reversed stereoscopic image.
- Rugged, all metal body designed to last a lifetime.
- Binocular eyetubes inclined at 45 degree for fatigue free viewing.
- Reflected LED light cool stage.
- Lifetime Warranty

HO8A	EMZ-5
HO8AB	spare bulb, 5v 30w for non LED illuminators
H32	Additional Hard Sided Carrying Case

***Leica S6E Stereo Zoom**

- Recommended for embryo work.
- 6.3:1 zoom and 38° viewing angle
- 20x eyepieces provide 36.5mm field of view
- Cool, detachable fiber optic illumination
- 5 year Warranty

S6E	S6E microscope
H08BB	spare bulb



S6E

***Meiji EMZ-8TR Trinocular Stereo Zoom**

Trinocular stereo zoom microscope for embryo evaluation and video or digital image documentation. Allows for group viewing when using the optional MEIJI VDEMZ video kit and when connected to any standard monitor. Digital image capture is simple. Continuous zoom magnification from 15-90x w/20x eyepieces. Reflected LED light. Lifetime warranty.

HO8TR	Trinocular Microscope
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***Meiji Phase Contrast**

Compound microscope with phase contrast for semen evaluation and video or digital image documentation. Features a large flat top mechanical stage, objectives of 10,20, 40 & 100x, 6v 30W illuminator, 10x eyepieces. Lifetime warranty.

ML2870	Binocular Phase Contrast
ML2970	Trinocular Phase Contrast

***MICRA Microscope, Handycope**

- High-Quality Professional Lenses
- Portable Design and Simple Operation
- Bright and Long-Life LED Lighting
- Long-Life Battery
- Specially Designed Polycarbonate Slide

The A.I. Handycope is a high-powered portable microscope designed as a fast and reliable test kit for fertility screening in artificial insemination applications. Using the A.I. Handycope, the most active and healthiest sperm samples can be selected for efficient artificial insemination resulting in a high rate of successful pregnancy. The instrument is easy to handle and use, and the high-powered LED light guarantees clear and bright images even in dark working environments. It is powered by a lithium battery and can be carried anywhere. 400x.

A4000	
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A4000

***Meiji Video & Digital Photography Kit**

Transmit live color images to a monitor (not included) for group viewing and instruction, or record on tape. Or attach your Nikon Coolpix, Olympus Camedia, Canon Powershot, or Fuji Finepix digital camera to instantly record images for emailing or archiving. Kit includes color video camera, cables, video C-mount adapter and camera adapter. Please specify your digital camera model when ordering.

VDEMZ	For the EMZ-8TR stereo zoom microscope
VDML	For the ML5955 compound microscope.

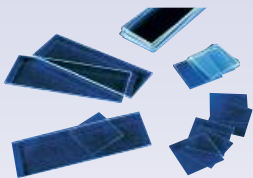
Glass Slides and Cover Slips

Glass slides are 25mm x 75mm x 1mm.

L15C	80 slides
L16C	100 cover slips



VDEMZ



L15C

L16C



Hitachi Aloka Prosound 2

Simple, Easy and Friendly Portable Ultrasound System

The Prosound 2 is a portable diagnostic ultrasound system, providing excellent image quality with comprehensive functions.

- **Extended Pure Harmonic Detection (ExPHD)** - Tissue Harmoni Echo by phase-modulation method is the standard specification . The system offers images of high accuracy by reducing unnecessary echoes without sacrificing sensitivity.
- **Multi Frequency Imaging (MFI)** - A single probe can provide multiple transmission frequencies that can be selected according to the physique of the patient.
- **Edge Enhancement Function** - Edges of tissues such as intima of the carotid artery are emphasized to facilitate IMT measurement for an index of determining atherosclerosis.
- **Ultrasound images, measurement results, patient information and reports** are stored and managed in the large-capacity built-in memory.
- **USB memory port** is equipped as a standard item ensuring efficient digital data management.
- **Built-in Cine Memory** allows the user to examine images easily using the search function.
- **Free Anular M-mode (FAM)*** - Up to three M-mode cursors can be displayed at the same time and it is possible to move and rotate them to efficiently and accurately examine the heart function irrespective of the direction and position of the fetus. (FAM is available in freeze mode.)
- **DICOM network communication*** - The system is compatible with DICOM 3.0 standard. The patient data and image data can be transmitted to the file server in the network. Worklist management enables acquisition of the patient information and reservation information from the host computer.
- **Includes UST-5820 rectal probe**

Weight - 22.05lbs Dimensions - 16.93x15.35x9.06 inches



Hitachi Aloka Prosound 2

Prosound 2 Hitachi Aloka Prosound 2

***Chison 9300**

Best image in the B&W market
Comes with 5.0-9.0MHz Linear Rectal Probe and carry bag

TECHNICAL SPECIFICATIONS

- **Scanning methods:** electronic convex/electronic linear /electronic micro-convex
- **Applications:** Abdomen, OB&GYN, Small parts, Reproduction, Cardiology, etc.
- **Display modes:** B, B/B, 4B, M, B/M
- **Scanning scale:** 256 levels
- **Scanning technique:** Real time dynamic imaging, RDF,RDA, DFS, DRA. Harmonic imaging.
- **Scanning depth:** 240mm max (depend on the probe types)
- **Probe frequency:** 2.5Mhz - 10Mhz (depend on probe types)
- **No. of probe connectors:** 1 (standard) 2 (optional)
- **Monitor:** 10 inch SVGA high resolution
- **CINE loop:** 128 frames
- **Image storage:** Permanent storage on Built in memory and USB disk & built-in hddisk 250G
- **Zoom:** 4 step
- **Software packages:** canine, feline, bovine, ovine, equine
- **Archives management:** patient information management
- **Documentation:** full screen documentation, hospital name, patient name, date/time.
- **Power supply:** AC, 230V, 50Hz(standard), Ac, 110V, 60 Hz (upon customer request)
- **Standard system:** Main unit + 7.5MHz Linear Rectal probe + 1 probe connectors + 2USB ports + VGA port



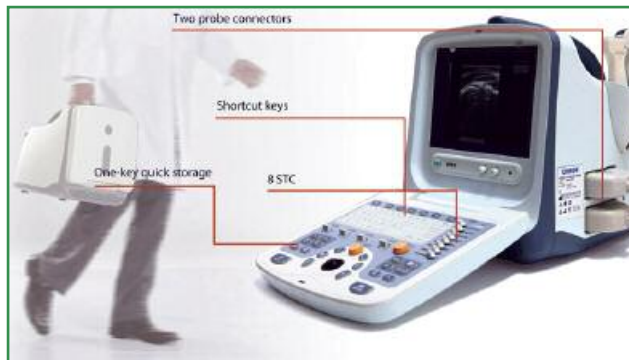
Chison 9300

OPTIONS:

6.0 Mhz Micro Convex Probe, 7.5 MHz Linear probe, 3.5MHz convex probe, USB flash disk, Trolley (TR-800), Video printer, DICOM3.0, Vehicle power charger, Keyboard water-proof cover, 2 probe connectors.

2 year manufacturer's warranty.

9300 Chison 9300



* Catalog items with a * are not stocked. Please allow 7-9 days for product delivery.

MODELS	EXTENDED-TIME REFRIGERATORS				HIGH-CAPACITY REFRIGERATORS			LIQUID NITROGEN DEWARs		
	XT10	XT20	XT21-AI	XT34	HC20	HC34	VHC35	LD4	LD10	
Static Holding Time ¹ days	100	230	221	340	87	200	130	10	45	
Working Time ² days	62	140	138	212	54	125	81	-	-	
Evaporation Rate ¹ Liters/Day	0.10	0.09	0.095	0.10	.23	.17	.27	.40	.22	
Liquid Nitrogen Capacity (liters)	10	20.7	21	34	20	34	35	4	10	
Weight Empty	lb. kg.	16.5 7.5	26 11.8	26 11.8	34.75 15.8	26.4 12	35.38 16.1	37.9 17.2	6.6 3.0	14.5 6.6
Weight Full ³	lb. kg.	34.3 15.6	62.8 28.6	63.4 28.8	95.3 43.3	62 28.2	95.9 43.6	100.2 45.5	13.7 6.2	32.3 14.7
Neck Diameter	in. mm.	2.0 51	2.0 51	2.18 55.4	2.0 51	3.6 91	3.6 91	4.7 119	1.2 30	2.0 51
Overall Height	in. mm.	23.8 597	25.8 655	25.8 655	26.3 668	24.25 615	26.31 668	26.8 681	17 432	23.5 597
Overall Diameter	in. mm.	11.4 290	15.6 396	15.6 396	18.8 478	15.6 396	18.8 478	18.8 478	7.6 193	11.4 290
Number of Canisters		6	6	6	6	6	6	6 ⁴		
Canister Dimensions ⁴	in. mm.	1.5x11 38x279	1.5x11 38x279	1.65x11 41.9x279	1.5x11 38x279	2.75x11 70x279	2.75x11 70x279	3.7x11 94x279		
Number of 1.2 ml & 2.0 ml vials (5/cane)		150	150	210	150	570	570	1050		
Number of 1.2 ml & 2.0 ml vials (6/cane)		180	180	720	180	684	684	1260		
Number of .5cc straws (10/cane)		540	540		540	1850	1850	3000		
Number of .5cc straws Bulk (1 level)		750	750	1122	750	2940	2940	4950		
Number of .5cc straws Bulk (2 levels)		1500	1500		1500	5880	5880	9900		
Item Numbers		TW4	TW5A	TW5B	TW6	TW8	TW11	TW13	TW17	TW19

ACCESSORIES	Cat. No.	
• DIP STICK Fits Taylor or MVE tanks	TW26	
• CANISTER Specify tank model	TW10	
• ROLLER BASE — Allows easy movement of full tanks	TW28	
• SPARE NECK CORK/FOAM Specify tank model	TW26A	

Footnotes:

¹Evaporation rate and static holding time are nominal. Actual rate may be affected by the nature of the contents, atmospheric conditions, container history, and manufacturing tolerances.

²Work time is an arbitrary, reference-only value to estimate container performance under the actual operating conditions.

³Without canisters or racks.

⁴Canisters also available in 5.0 in. (127 mm) height for XT10, XT20 and XT34.

⁵Optional 7th canister available to increase storage capacity by 23%.

Vacuum Warranty
5 years

Taylor-Wharton's advanced range of cryogenic refrigerators meet your needs — flexibly, efficiently, economically. Their comprehensive series of high-performance refrigerators incorporates durable, lightweight construction with a full range of optimum holding times and maximized capacities. The result is an entirely new standard of cryogenic efficiency.

Nitrogen Tanks by TAYLOR-WHARTON
THE CRYOGENIC STANDARD IN REFRIGERATORS
THE HC SERIES REFRIGERATORS

The High-Capacity HC Series of Taylor-Wharton Refrigerators enables you to store more semen, embryos or biological material at liquid-nitro-

gen temperature. Seven different unit sizes with convenient holding times and capacities are available to satisfy a broad range of storage demands. Two low profile HCL models are also available providing reduced unit height for transit or storage.

THE XT SERIES OF REFRIGERATORS

The XT Series of Taylor-Wharton Cryogenic Refrigerators offers Extended-Time, cost-effective storage for semen, embryos or biological samples. Each of the six different sizes maximizes holding time for a given quantity of liquid nitrogen, fulfilling a variety of user requirements. In addition, the low profile XTL models provide an answer to space problems.

Tanks and accessories are not stocked. Please allow 7-14 days for product delivery.



SPECIFICATIONS	VAPOR SHIPPERS			STORAGE			STORAGE		
	MODEL	MINIMOOVER	SC 4/2 V	SC 4/3 V	SC 3/3	SC 11/7	SC 20/20	XC 34/18	XC 47/11
MAXIMUM STORAGE CAPACITY									
Number of canisters	1	1	1	6	6	6	6	6	6
Number of 1/2 cc straws (10/cane)	60	280	120	-	540	540	2,100	4,500	
Number of 1/2 cc straws (1 level Bulk)	88	440	210	732	732	780	3000	6216	
Number of 1/4 cc straws (1 level Bulk)	904	938	952	-	150	150	630	1320	
Number of 1.2 & 2.0 ml vials (5/Cane)	20	95	40						
Number of 1.2 & 2.0 ml vials (6/Cane)	24	106	48						
Number of blood bag storage	-	-	-						
PERFORMANCE									
Liquid nitrogen capacity (liters)	2.9	3.6	4.3	3.6	11.0	20.5	34.8	47.4	
Static evaporation rate (liters/day)	0.20	0.26	0.20	0.12	0.15	0.09	0.18	0.39	
Normal working duration	14	14	21	19	46	142	123	76	
UNIT DIMENSIONS									
Neck opening (in/mm)	1.4 35	2.75 70	2 51	2 51	2 51	2 51	3.5 89	5 127	
Overall height (in/mm)	19.5 495	18.4 468	19.4 492	16 406	21.6 549	25.7 652	26.6 675	26.5 673	
Outside diameter (in/mm)	7.2 184	8.7 222	8.7 222	8.7 222	10.2 260	14.5 368	18.2 464	20 508	
Canister height (in/mm)	11 278	11 278	11 278	5 127	11 279	11 279	11 279	11 279	
Canister diameter (in/mm)	1.2 31	2.62 67	1.81 46	1.5 38	1.5 38	1.5 38	2.81 71	4 102	
Weight empty (lbs/kg)	8 3.6	11 5	13 5.9	8 3.6	17 7.7	26 11.8	34 15.4	42 19	
Weight full (lbs/kg)	11.6 5	18 8.1	20.6 9.3	14.4 6.5	36.6 16.6	62.5 28.3	96 43.5	120.4 54.6	
Item #	MVMM	MV26	MV26A	MV50	MV52	MV35	MV40	MV42	

MODEL-DEWAR TANK	LAB 10
PERFORMANCE	
Liquid nitrogen capacity (liters)	10
Static evaporation rate (liters/day)	0.18
UNIT DIMENSIONS	
Neck Opening (in/mm)	2.2
Usable height (in/mm)	13.5
Overall height (in/mm)	21.5
Outside diameter (in/mm)	10.3
Internal diameter (in/mm)	8.3
Weight empty (lbs/kg)	13
Weight full (lbs/kg)	31
Item #	MV57



The MVE Vapor Shipper

The MVE Vapor Shipper containers are designed for the safe transportation of biological samples at cryogenic (-150°C) temperatures. Fabricated from durable, lightweight aluminum, they contain a hydro-phobic absorbent that contains the liquid nitrogen. The absorbent also repels moisture and humidity, assuring the maximum holding time.

A protective shipping carton is available for all models which protects the container from being placed on its side and helps in withstanding the rigors of transportation. These containers can be used to ship your samples with a "non-hazardous" classification throughout the world.

The SC series

The SC series is designed for the user who has small capacity needs, but requires long-term storage and low liquid nitrogen consumption in a convenient lightweight package. MVE Aluminum Freezers are the units of choice.

The XC series

The XC series is designed for the user who requires large capacity storage and low liquid nitrogen consumption in a convenient lightweight package.

Vacuum Warranty 3 years on vapor tanks, 5 years on all others

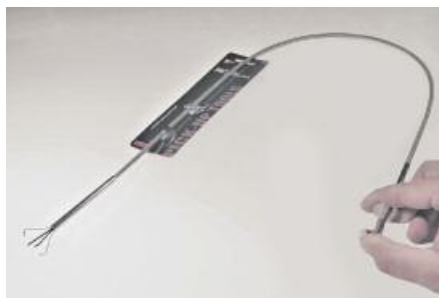
** Static evaporation rate and static holding time are nominal. Actual rate and holding time will be affected by the nature of container use, atmospheric conditions, and manufacturing tolerances and any individual patterns of use.

** Normal Working Duration is an arbitrary reference, to estimate container performance under normal operating conditions, container history, manufacturing tolerances and any individual patterns of use.

Tanks and accessories are not stocked. Please allow 7-14 days for product delivery.

ACCESSORIES	Cat. No.
• SHIPPING CARTON - Protective container for SC4/2V, Minimoover, SC4/3V, SC11/7, specify tank model.	MV30
• CANISTER Holds straws or canes	MV31
• SPARE NECK CORK High efficiency foam	MV32
• ROLLER BASE Specify tank model.	MV44

36" Claw Pick Up Tool	
• Flexible shaft, with 4-prong claw, 36" overall length. Arrives straight, shown curved below to demonstrate that it's flexible. Push the plunger and the claw appears and opens at the opposite end. Release the plunger and the claw retracts around the straw or object.	H06





586A-201

***Water Bath**

Excellent for thawing frozen semen straws, and warming the E-Z Mixin semen extender, or any other equipment that requires a fixed physiological temperature. The thermoregulated water bath, from ARS, is factory calibrated to maintain water temperature at 37C +/-0.5C (98.6 +/-0.9F). Its convenient size (12.8"L x 11.5"W x 7"H) takes up minimal counter space, making it ideal for laboratories and indoor work areas. The water bath kit includes an instructional manual, transparent plastic lid and a detachable power cord.

586A-201 Water Bath Kit



B6-6280

Thermos with Thermometer

An unbreakable, light weight, rugged, wide mouth plastic thermos bottle with molded side handle and a capacity of one pint (671.30ml). Includes a thermometer. Dimensions are 4.5" (11.43cm) wide and 8.0" (20.32cm) long.

B6-6270 Celsius

B6-6280 Fahrenheit

Thaw Unit, IFT

A simple to use and user friendly semen thaw unit from IFT, which is built to survive under any working conditions. Robust unit is made out of high impact plastic and has no glass inner flask. Automatically heats and maintains an accurate temperature for semen thawing. Pre-Set temperature at 36°C.

The Inner cylinder contains a 4 slot divider which helps you identify/organize your semen straws. The Lifter elevates the straws in order to prevent the use of fingers which can cause the semen to warm unevenly, lowering the number of live sperm.

- No need to worry about voltage source: 3 in 1 - 12V/110/220V (power pack kit)
 - 4 meter power cord / 12V car plug adapter.
 - 12V socket with battery connecting clips.
 - 110/220V automatic power supply wall adaptor for mains.
- Easy to See - Solid Stem Thermometer for rapid reading of temperatures. Shockproof protection sleeve cover, -40°C / 50°C - 16cm.
- No Inner Glass flask
- Drop Proof
- 4 Slot chamber
- Straw Lifter
- CTT™ heating system
- Carry case
- 2 year warranty



C52

C52 Thaw Unit

Thermocouple Thermometer

Temperature can be displayed in degrees F or C as large, 4-digit LCD numbers. HOLD feature lets you freeze the display for later reading. Thermometer is calibrated and conforms to NIST tables for accuracy. Probe is ideal for verifying temperatures in your embryo freezer or warm-water bath. Range: -190 to 1000c; Resolution: 0.1 c; Accuracy: +/- 0.1 c; Display: 4-digit LCD, Power: 9V battery/1000 hours; Probe: stainless steel, 4.5" Long, 1/8" diameter, with cable; Dimemnsions: 3.3" W x 6.3" H x 1.1" D; Warranty: 3 years

H05E



H05E

Thermometer, Digital

Digital Thermometer, Temp. Range 14F (10C) to 392F (200C). Dial Size 1 3/4 In., Dia. 1 3/4 In., Length 6 In., Stem Length 5 In. Construction Plastic, Includes Battery. Recommended for use with the C52 Thaw Unit.

B6-6330D

Thermometer

E176 Extra Long-Stem Thermometer 14 3/8", digital C & F, stainless steel probe



E176

ET & AI Supply Case

What a great way to keep track of your embryo transfer and a.i. supplies. This molded heavy-duty "structolene polyethylene" case is impervious to chemicals, manure and moisture. Double heavy-duty plated latches reliable holds case closed. The case contains a compartment tray to hold small items like your straws scissors and measuring tape. 26" long x 8 3/4" wide x 10.5" high.

H31

Sterilization tubing

This sterilization packaging material is clear plastic on one side and paper on the other. Cut to length and either heat-seal or tape closed. 100' roll.

J18 3' wide roll

J20 6' wide roll



H31



J18

J20



Estroprotect™ Heat Detector Patch

Excellent visual aid for detecting cows in standing heat. Applies by self-adhesive to the tailhead. When cows are mounted, the scratch off surface is rubbed off exposing the brilliant signal layer below. 50 markers/pack.

J13	Orange
	2 or more packs
J14	Green
	2 or more packs

Kamar Heat Detector Patch

Kamar heatmount detectors allow you to identify more cows in heat and to create more profitable calving intervals. To use the Kamar heatmount detector, glue the detector onto the tailhead of a cow. When a cow wearing a Kamar is mounted by a herd mate constant pressure from the brisket of the mounting animal turns the detector red. This leaves a visible indication that the cow stood to be ridden and therefore may be in heat and ready to breed. An exclusive built-in timing mechanism is designed to distinguish false mounts from true standing mounts. Box of 50 detectors includes 2 tubes of adhesive.

J15	1 box
	2 or more boxes

Sharp Mark marking crayons

All weather marking crayon for hipmarking recipients, culls and treated cattle. 12 crayons/box.

J24C	Fluorescent Orange
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Embryo Data Form

Organize all your important embryo collection, transfer and freezing information, each time you flush on this single form. Format approved by the International Embryo Transfer Society.

V26	20 forms/pack
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Kimwipes

Kimwipes are an extra low linting tissue that will not scratch or contaminate most delicate surfaces. They will easily wipe up both liquid and dust and are highly absorbent. The dispenser is anti-static to reduce electrostatic charge. Each box contains 280 wipes.

06-666A	1 box
	10 or more boxes

Speculum, Equine

The disposable vaginal speculum is 18" long with foil lining for greater visibility. The penlight illuminates the interior of the speculum for improved visibility while performing A.I. or other exams. Disposable vaginal speculums are sterile, individually wrapped and sold in packages of 10.



EDVS-102-10	10 speculums
537-664	speculum penlight

Culture Swab

A unique tool for collecting uterine samples from brood mares for cultures. Three piece design includes: an outer clear PVC tube, a blue PVC swab sheath inside the outer tube, a white PVC swab holder with attached cotton swab. Sterile, individually wrapped.



E9-5200	25 swabs/bag
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Dispensing Bag

This dispensing bag has an easy open and easy close flip cap fill port. Hangs easily in your barn or clinic. Dose not include tubing. 1500 ml capacity. Perfect for use with C06, D-PBS Modified or C09A Powdered D-PBS, when making a flushing solution.

E28	1 bag
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Forceps

Stainless steel forceps or hemostats. 5.5" long.

H23	Straight
H24	Curved

Scissors

5.5" stainless steel scissor has a blunt/sharp end.

H22	
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Alconox, detergent

For cleaning lab ware and instruments. Biodegradable, rinses clean.

J23	4lb carton
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Nolvasan

Nolvasan (chlorhexidine diacetate), the only EPA-registered chlorhexidine disinfectant, works against at least 60 different bacteria, fungi, yeasts, and viruses. Nolvasan is non-corrosive, has minimal to no skin irritation, and retains antimicrobial activity in the presence of organic matter. Nolvasan's unique binding to skin proteins provides residual activity for as long as two days. Usual dilution is 1 oz per gallon of water.

J26	1 gallon
	4 or more

Chlorhex

A virucidal, bactericidal, fungicidal sanitizing solution useful in the disinfection of equipment and premises. Usual dilution is 1 oz per gallon of water. Chlorhexidine Gluconate.

J26A	1 gallon
	4 or more, gallons



J13





796



5912 & 2912



618V



100S



100Z

180VV

180V



***Artificial Insemination Vest**

Designed to keep valuable semen safe and warm in a convenient front lapel pouch. Hold up to 4 individual pipettes safely and out of the way so your hands and arms are free. Pipette pouch has a slanted design for easy access located on the left chest, zip open bottom for cleaning and lined with Thinsulate insulation that includes a small chest pocket for reusable hand warmer to help keep semen at the optimal temperature. Two roomy front patch pockets, right chest pocket with 10cc syringe slip, convenient towel dispenser on the right and handy O.B. lube pocket on the left provide ample storage.

Chest sizes S (34-36), M (38-40), L (42-44), XL (46-48)

796 Small-X Large

***Scrub Pant**

Custom designed for comfort and functionality. Has elastic waist and pant cuffs for a better fit. Draw string waist. Includes two front and two back patch pockets, hammer loop, and stacked thigh pocket for syringe, liquid marker etc.

Made from same 8.5 ounce navy twill as the top and constructed to last.

Outlasts other scrub pants 3 to 1. Made in the USA

This special order item does not include the Agtech logo. Please allow 7-9 days for delivery.

5912 Small- XXXL, Navy

***Scrub Top**

Custom pockets designed specifically with the reproduction practitioner in mind. Increases speed and efficiency during the treatment of animals. Double lapel pockets for extra storage plus for-cep holder. Comes with inverted bottle pocket, stacked front storage pocket for paint sticks, syringes etc. Double stitched pocket corners. Made from heavy duty 8.5 ounce navy twill fabric that outlasts other scrub tops 3 to 1. Made in the USA.

2912 Small- XXXL, Navy

***Palpating Jacket Hip Length**

The must have for animal breeders! Comfortable and stylish, this jacket allows you to bare one or both arms without removing the jacket. Un-used sleeves snap to the small of the back. Pocket on left chest designed to hold a suture cassette. Constructed of sturdy 8.5 oz twill (65% poly/35% cotton) and lined with plaid flannel quilted to Dacron Hollofil 808. Quilted taffeta nylon in sleeves provide for easy on/off. Combination pockets feature pleated cargo pockets with hook and loop closures on flaps and side entry to hand warmer pockets. Nylon coil arm zippers and corduroy collar. Machine washable.

Made in the USA. Order by chest size and length.

Order "Regular" length if you are 6'0 or under. Order "Tall" if over 6'1. Chest sizes Sm (34-36), Med (38-40), Large (42-44), X-Large (46-48)

618V Sm/Reg, Med/Reg, Lrg/Reg, Lrg/Tall, XL/Reg

***Insulated Coverall**

The ultimate veterinary coverall in cold weather protection for the large practitioner. Constructed of long wearing 8.5oz. spruce green twill. The many features on this include arm zippers from wrist to shoulder, knit storm cuffs recessed in sleeve, and two-way brass zipper. Seven pockets, two "swing" front pockets, two hip patch pockets, two zippered breast pockets, and a pencil pocket on the left chest. Leg zippers to the hip, bi-pleated back for ease of movement, and a snap-on hood. Machine washable.

100S Chest 34-52 (even numbers only). Inseam sizes S (30" 5'8), R (32", 5'9 to 6'0), Tall (34", 6'1 to 6'3)

***Unlined Bib Overall**

A must have reproduction apparel item! Design and fit of this garment is full cut, meant to go over normal clothing allowing for great freedom of movement. Made of 8.5-ounce, spruce twill (65%polyester/35% cotton) that never needs ironing. Two-way brass zipper with a snap closure at the top. Six pockets; two deep, roomy front swing pockets, two patch hip pockets and breast pockets, one with a zipper closure; the other with a pencil/thermometer slot. Adjustable elasticized suspenders. Machine washable. Made in the USA. Order by waist and inseam sizes

100Z Waist 28- 50 (even numbers only), Inseam Short, Regular, Tall

***Men's Popline Jumpsuit**

A very popular short-sleeve working outfit. Constructed of high-count 65%polyester/35% cotton poplin that needs no ironing. Two-way brass front zipper. Elastic back for trim fit. Six pockets; including two deep front swing, patch hip, and breast pockets with hook and loop closure. Machine washable. Made in the USA. Order by chest and inseam sizes

180V Chest 34-52 (even numbers only), Inseam Short, Regular, Tall

***Women's Popline Jumpsuit**

Constructed of high-count 65%polyester/35% cotton poplin that needs no ironing. Two-way brass front zipper. Elastic back for trim fit. Six pockets; including two deep front swing, patch hip, and breast pockets with hook and loop closure. Machine washable.

Made in the USA. Order by chest size

180VV Chest size Sm (34-36), Med (38-40), Large (42-44), X-Large (46-48)

The Agtech Reproduction Hat

Show the world you're an ET or AI specialist with Agtech's reproduction cap. Embroidered graphics include a 16 cell embryo and blastocyst on one side with sperm cells on the other. Stylish, high quality cotton twill hat with padded sweatband. Low profile, no structure with black bill and khaki cap. Matte gold flip buckle adjusts to your size. Cloth adjusting strap tucks neatly back into the hat.

K40 One size fits all

*Catalog items with a * are not stocked. These items are special ordered to include the Agtech logo embroidered on the pocket. Please allow 9 to12 days for delivery.

2, 4, 12 Well Dishes	14	Folltropin	2	Scissors	31
Acepromazine	5	Forceps	31	Sealing Plugs	15
Acrodisc Filter	?	Form, Embryo Data	31	Sealing Powder	15
Antibiotic/Antimycotic	?	Freeze Control Systems	22-24	Semen Extenders	18-19
AV Cones/Liners	17	Gentamicin	4	Semen Filters	16
AV Kit, Equine	?	Gloves/Breeding & Collection	11	Semen Stain	19
AV Liners, Bovine	17	Goat Insemination	10	Semen Transport	20
AV, Bovine	17	Goblets	17	Sheaths	10-11
AV, Equine	16	Guns/Rod, Insemination	10-11	Shipping Information	1
AV, Sheep & Goat	17	Heat Detection	31	Sleeves	11
Banamine	4	Heat Sealer	15	Slide Warmer	17
BioLife Media	6	ID/Cane tabs	16	Slides/Cover Slips	26
BSA w/Anti-Anti	?	Incubators	21	Speculum, Equine	31
Canes	16	Infusion Pipettes	11	Sterilization Tubing	30
Case, ET & AI	30	Insemination Guns	10	Storage & Transport Tanks	28-29
Catheters	12	Insemination Tubes, Equine	11	Straw Cutter	15
Centrifuge Accessories	18	IVF Catheter	13	Straw Freezing Systems	20
Chemise	10	Kimwipes	31	Straw Tweezers	15
CIDR	3	Kit, AI Equine	16	Straws	14-15
Chorulon	2	Labeling System	16	Stylets	12
Cryologic Freezers	22-24	Lidocaine	4	Syringes	9
Culture Tube	14	Liners, Equine	16	Thaw Unit	30
Cystorelin	3	Liners, Bovine	16	Thermocouple	30
Data Form, Embryo	31	Lubricant	11	Thermometers	30
Densimeters	19	Lutalyse	2	Thermos	30
Detergents	31	Marking Crayons	31	Tom Cat Catheters	13
Dishes	14	Marking Pen	16	Transfer Guns	10
Disinfectant Wash	?	Media, Embryo	6-8	Trypsin	6
Dispensing Bag	31	Microdispenser	13	Tubing	13
D-PBS Holding	6	Microscopes	26	Tubing, Sterilization	30
Ejaculators	17-18	Needles	9	Ultrasounds	27
Emcare Media	8	Nitrogen Tanks	28-29	Vapor Shippers	28-29
Equine, Culture Swab	31	Nuflor	4	ViGro Media	7
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Ethylene Glycol Freeze	6-8	Oversleeve	10	Warm Stage	25
Exam Gloves	11	Oxytocin	4	Water Bath	30
Excenel	4	P.G. 600	2	Whirl Pak	18
EZ Mixin Semen Extender	18-19	Pipettors	13	Y-junction tubing	13
Factrel	3	Pipettes, infusion	11		
Fertagyl	2	Pluset	2		
Filter, Semen	16	Prescription Form	5		
Filters	13	Regu-Mate	3		
Flunixinamine	4	Sani-Shield Rod Protectors	10		

Agtech Brand Products



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Reproduction Hat	32
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Return Service Requested

Therio-gel®

The Veterinary Fertility Lubricant for All Animal Species



Item# 6142

Clinically shown to not harm sperm or sensitive tissue.

The right lubricant will maintain sperm quality and motility during semen collection! The wrong lubricant decreases live sperm numbers in an ejaculate on contact and over time.

Therio-gel® is perfect for:

- Artificial insemination of cattle
- Collecting semen from bulls
- Artificial insemination of mares
- Collecting semen from stallions
- Breeding soundness evaluations of stallions
- Lubrication for natural cover of mares
- Inseminating sows, sheep, goats, llamas and alpacas
- Collecting semen for breeding pigs, sheep, goats, llamas and alpacas

"Therio-gel® has been terrific, particularly for difficult stallions that need lubrication of the AV more than once. The lubricant certainly has no effect on motility up to 48 hrs after collection ... I was able to improve 3 stallions that were considered poor semen shippers, to an acceptable level of motility at 36 hours after collection, just by changing to Therio-gel®."

– Dr. JS Langley, BC



Also available in single use packets

The Therio-gel® 4 pack

Item# 6142A – 4 single-use packets



Therio-gel® is perfect for all aspects of bovine, equine, small animal breeding, and veterinary reproductive medicine. See more information at theriogel.com