



**Embryo Transfer &  
Artificial Insemination  
Products & Training**



**Volume 36**  
**1.800.367.4016**  
**[www.agtechinc.com](http://www.agtechinc.com)**





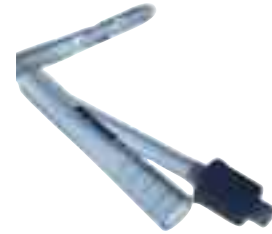
<b>How to Order</b>	<b>1</b>
<b>Pharmaceuticals</b>	<b>2-5</b>
<b>Embryo Media</b>	<b>6-9</b>
• BioLife .....	6
• ViGro .....	7
• Emcare .....	8
• Additional Media & Additives .....	9
<b>Implant/A.I. Supplies</b>	<b>10-12</b>
• Transfer/AI Guns & Sheaths ..	10-11
• Infusion/Insemination Pipettes ..	11
• Sleeves/Gloves .....	11-12
• Lubricant .....	12
<b>Embryo Collection/ Freezing Supplies</b>	<b>12-16</b>
• Catheters & Stylets .....	12-13
• Filters & Tubing .....	14
• Embryo Handling & Manipulation	14
• Dishes .....	15
• Straws .....	16
• Goblets, Canes .....	17
<b>Semen Collection</b>	<b>17-22</b>
• Collection .....	17-18
• Slide Warmer .....	18
• Ejaculators .....	19
• Semen Extenders .....	19-20
• Semen Accessories .....	20-21
• Densimeters & Accessories .....	21
• Semen Shipping .....	22
• Centrifuge .....	22
• Straw Filling & Freezing Systems	22
<b>Syringes &amp; Needles</b>	<b>23</b>
<b>Equipment</b>	<b>24-32</b>
• Cryologic Freeze Control Systems, Temperature Controllers, Cryochambers, Accessories .....	24-26
• Warmstage .....	27
• Microscopes & Accessories .....	28
• Ultrasounds .....	29
• Storage & Transport Tanks ..	30-31
• Incubators .....	32
<b>Lab Accessories</b>	<b>33-34</b>
• Thawing Equipment .....	33
• Thermometers .....	33
• Heat Detection .....	33-34
• Detergents/Disinfectants .....	34
<b>Training, Books &amp; DVDS</b>	<b>35</b>
<b>Clothes</b>	<b>36</b>
<b>Index</b>	<b>37</b>

## Welcome to Agtech, Inc.

Agtech brand products deliver performance and value. Exacting standards, rigorous testing and uncompromising quality control go into Agtech brand syringes, catheters, media and plastic ware. Our products have to be perfect. We use them in our classes. Our customers include family and friends, and clients who flush high value animals. Research scientists working with endangered species use Agtech brand products.



Zona™ Embryo Collection Filter



Vortech™ Silicone Catheters



Embryo Transfer Sheaths



CellSafe™ Syringes



Solution™ Dishes



Rapid-Flow™ Y-junction Tubing



BioLife™ Media

“I’m very happy with the Agtech Zona Filters and Sheaths. They have worked flawlessly and I’ve used them for over 2 years. You can’t beat economical price.”

*W. Malcom- Montana*

“Your products are top of the line. You are great!”

*Brushy Creek Custom Sires*

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

*T. Muller- Iowa*

“The results we’ve been getting using Agtech’s products have consistently been excellent.”

*J. Eichhorn- Colorado*

➤ Agtech Products Deliver Performance and Value

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

U.S. Sales  
Tom Patterson  
800.367.4016, ext. 1  
tpatterson@agtechinc.com



International Sales  
Orlando Quiroga  
913.381.2822  
o.quiroga@agtechinc.com



## UPS Ground Transit Times



Agtech, Inc.  
8801 Anderson Avenue  
Manhattan, KS, 66503 USA  
Phone: 800.367.4016  
or 785.776.3863  
Fax: 785.776.4295  
www.agtechinc.com  
sales@agtechinc.com



### R<sub>x</sub> 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<sub>x</sub> Pluset

- FSH from porcine pituitary extract

Dosage: Superovulate by way of decreasing dose IM injections over 4-5 days. (900-1000 I.U. total/dose). Consult package details for additional dosage instructions.

Formulation: FSH and LH in 1:1 ratio. Lyophilized as 1000 I.U. of FSH & LH, plus 20ml of saline for re-hydration

A85	20ml vial.
	1-4 vials
	5-9 vials
	10 or more

### R<sub>x</sub> 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<sub>x</sub> 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

### 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<sub>x</sub> 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
-----	----------------------



### R<sub>x</sub> 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

“I like Agtech’s customer service in the personalized way via Mr. Orlando Quiroga. I also like your diversity and availability of supplies. Great selection and good prices.”

*Dr. Rodriguez, Ph.D., Puerto Rico*

**R<sub>x</sub> 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
	1-9 vials
	10 or more

**R<sub>x</sub> 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

**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<sub>x</sub> 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
-----	---------------





**R<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> Lidocaine**

- Anesthetic

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

A15	100ml vials
	1-11 vials
	12 or more

**R<sub>x</sub> 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
------	------------

**R<sub>x</sub> 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
-----	------------

**R<sub>x</sub> 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 only deal with Agtech. Why mess with something that works? Keep up the good work and continue to provide outstanding quality equipment.”

R. Martin, KS

**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"/> Banamine Injectable | <input type="checkbox"/> Gentamicin |
| <input type="checkbox"/> Chorulon            | <input type="checkbox"/> Lidocaine  |
| <input type="checkbox"/> Cystorelin          | <input type="checkbox"/> Lutalyse   |
| <input type="checkbox"/> Estrumate           | <input type="checkbox"/> Nuflo      |
| <input type="checkbox"/> Excenel             | <input type="checkbox"/> Oxytocin   |
| <input type="checkbox"/> Factrel             | <input type="checkbox"/> Pluset     |
| <input type="checkbox"/> Fertagyl            | <input type="checkbox"/> Regu-Mate  |
| <input type="checkbox"/> Flunixinamine       |                                     |

**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 in this catalog) 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.



“I have flushed a \$100,000 mare using your products. I have worked with many donor cows with progeny values upwards of \$300,000 on which I have used your products. You have great customer service and fast shipping.”

Dr. Richard Geary, Countryside Veterinary Clinic, Saint Anthony, ID

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 IC22 Emcare Ultra Flush Medium.

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

C32	1 case of ten 1 liter bags
	4 or more cases
C32A	1 liter bag
C33	1 case of six 2 liter bags
	4 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 2-5C, refrigerate.

2 day transit.

C15	50ml bag
	6 or more bags
C15C	8ml plastic tube

*Available Soon in New Packaging*

**BioLife™ Freeze Medium Ethylene Glycol**

- Revolutionary 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 2-5C, refrigerated.

2 day transit.

C18	50ml bag
	6 or more bags
C18C	8ml plastic tube

*Available Soon in New Packaging*

➤ Agtech Products Deliver Performance and Value







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: 15-30°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 2-5°C. 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-glucuronic 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: 15-30°C. 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

- Very popular for embryo freezing.
- Transfer embryo to recipient from the straw.

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 2-5°C. 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 2-5°C. 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 2-5°C. 2 day transit.

EVM248	Three 20ml bags/thaw kit
--------	--------------------------





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

IC22	1000ml bag, case of 10 bags
	6 or more cases
IC21	1000ml bag
IC24	2000ml bag, case of 5 bags
	6 or more cases
IC23	2000ml bag

**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
-----	-------------------------

**Emcare Holding Solution**

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

IC20	Four 6ml plastic tubes/kit
------	----------------------------

**BioLife™ D-PBS**

- Rinsing solution
- Transfer solution

Use as a rinsing solution for your filters and dishes or as a transfer solution when combined with Ultra Pure BSA or B09.

C06 125ml bottle



**BioLife™ D-PBS, Powered**

- For embryo collection
- Contains no magnesium or calcium

Combine 1 vial with 1000ml distilled water and serum (not included). Use in the E28 dispensing bag on page 34. Store at room temperature.

C09A six vials



**BioLife™ Bovine Serum Albumin Lyophilized**

Flushing solution: Add one vial re-hydrated serum to 1000ml PBS for a 0.04% concentration.

Holding solution: Add one vial re-hydrated serum to 100ml PBS for a 0.4% solution. Re-hydrate one vial of serum with 10ml sterile water or PBS.

Formulation: 0.4g BSA per vial and no antibiotics. Store refrigerated 2-8C. 2 day transit.

B09 six 0.4g vials



**BioLife™ Antibiotic-Antimycotic Lyophilized**

Formulation: 25mg Amphotericin-B, 10,000 units penicillin G sodium, 10,000ug streptomycin sulfate/ml. Store refrigerated 2-5C. 2 day transit. Re-hydrate one vial with 10ml sterile water or PBS.

B01 six vials/pack

1-2 packs

3 or more



**Trypsin, lyophilized**

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

Kit includes: 25g powdered trypsin, 100ml sterile water, 100ml D-PBS (item#C06), mixing flask and preparation instructions.

Formulation: 2.5% (10x) trypsin. Store refrigerated.

C22A one kit

➤ Agtech Products Deliver Performance and Value



C06



C09A



B09

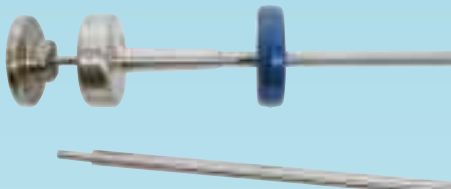


B01



C22A

# 10 Transfer/Al Guns & Sheaths



## Transfer Guns

Also known as the IMV Mini Syringe.

F17 deep chamber accepts full length .25 cc straws. F17A shallow chamber rod accepts .25cc 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
F23	Equine .5cc spiral gun 20", fits F22 .5cc sheaths

## Agtech 21" Sheath, Radiated

- Radiated
- Stainless steel, side delivery tip sheath, preferred for transferring embryos.
- Fits the IMV transfer rod, items F17 and F17A.
- Fits F23 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, radiated, no chemise
	1-29 packs
	30 or more packs
F21	Pack of 25, Individually packaged w/chemise, radiated
	1-5 packs
	6 or more packs
F22	Pack of 5, Equine 0.50cc side delivery sheath. Individually packaged. Radiated w/chemise. For use with F23 gun.
	1-5 packs
	6 or more packs

## IMV 21" Sheath

With stainless steel side-delivery tip. Fits the IMV mini-syringe rod F17 and F17A.

F18A	Pack of 5, clean not radiated
	1-29 packs
	30 or more
F18	Pack of 25, Individually packaged w/chemise, Radiated
	1-5 packs
	6 or more

## 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

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.

7070	Gun for .25cc straws
------	----------------------

## Insemination Gun, Spiral Hub

- Uses spiral sheath with blue insert
- Universal gun accepts either .25cc or .5cc 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
------	---------------

## Insemination Gun & Sheath for Sheep & Goats

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

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



**AI Sheaths with insert**

- Insert provides a secure seat for .25cc and .5cc 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. 4 or more packs
B6-4400C	Green insert sheaths, bulk package 4 or more packs
B6-4500	Blue insert sheaths, bulk package 4 or more packs
B6-4500D	Blue insert sheaths, individually packaged. 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
---------	-----------------

**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



**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"
------------	-----



**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, sterile w/internal pipette
-------	---------------------------------------



**Gloves, Exam**

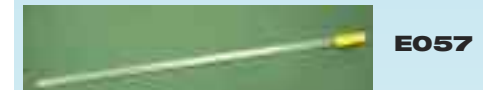
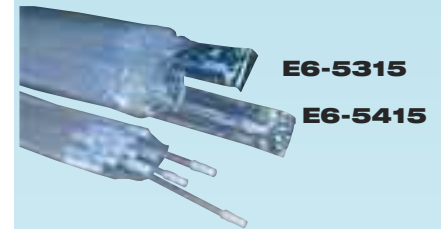
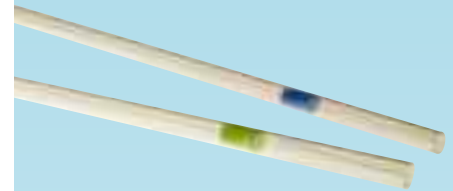
These latex wrist length gloves are powdered so they go on easy. Not sterile. 100 gloves per box.

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

**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
---------	------------------------------------



“I like the wide variety of products and the knowledgeable staff. They know the products you need for what you’re doing.”

*Mr. Miller - Alabama*

## 12 Sleeves, Lube, Catheters

V7-2312



J02A

J04



### 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

### 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

### Surgilube

Surgilube® is Colorado State University's recommended replacement for K-Y® Lubricating Jelly. Surgilube® offers superior lubricating qualities and is sterile. This product is ideal for lubricating AV liners, AI procedures or other operations where lubrication is necessary. Sterile.

J12	4oz tube
	12 or more, tubes

### Lubogel-V

A lubricating jelly composed of a solution of Sodium Carboxy MethylCellulose in Propyleneglycol. This formulation is virtually non-toxic, non-spermicidal, and minimizes irritation to the skin and the delicate mucous membranes of animals. Not sterile.

6655	1 gallon
	4 or more, gallons

### Priority Care

A lubricating jelly that is a solution of Sodium Carboxy Methyl-Cellulose in Propyleneglycol. It is non-toxic, non-spermicidal, and minimizes irritation to the skin and delicate mucous membranes of animals.

6660	5oz tube, sterile
	12 or more, tubes
6721	2.5 gallons, not sterile
	4 or more, gallons



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

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



Bioniche Silicone Bovine

### Silicone Bovine Catheters 22" long

Silicone catheters from Bioniche are not sterile, but can be autoclaved. 4 eyelets.

ECE009	16fr 30cc balloon, 22" long
ECE010	18fr 5cc balloon, 22" long
ECE011	18fr 30cc balloon, 22" long
ECE012	20fr 5cc balloon, 22" long
ECE013	20fr 30cc balloon, 22" long
	1-9 catheters
	10 or more

### Silicone Small Ruminant Catheter

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

ECE083	8fr 5cc 12" long
--------	------------------

### Vortech™ Silicone Catheters for Syringe Flushing, 25.2" long

- Sterile
- Foley 2 way
- Similar to the Minitube "Desi" catheter

E203	18fr 30cc balloon
------	-------------------

Available Soon



**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
	10 or more



**Vortech Silicone Equine**

**Silicone, 3 way, Catheter**



Silicone catheter for equine lavage from Bioniche. Not sterile, but can be autoclaved. 4 eyelets.

ECE120	20fr 30cc, 26 inches long
--------	---------------------------

**Silicone Equine Catheters, Sterile**

These open ended catheters by Bioniche have two eyelets. Autoclavable.



ECE125	32Fr. 75cc balloon, 34 inches long
	10 or more
ECE128	37Fr. 75cc balloon, 36 inches long
	10 or more



**Bioniche Silicone Equine**

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



**Latex 18"**

**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

**Stylette**

Bioniche stainless steel safety coated stylette.

ECE020	23.6" long
--------	------------



**E23A - E24A**

➤ **Agtech Products Deliver Performance and Value**

“Agtech is a unique supplier because of their available supplies, good people taking care of the business and being a resource for questions. I always appreciate not feeling like I asked a stupid question.”  
*Mr. Edwards - California*



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.
- Pinch clamp or tethered cap 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.

D06A	Acrodisc	10 filter pack
D06C	Acrodisc	50 filter pack

**IVF Catheter, In Vitro Fertilization**

- For aspirating embryos from a search dish.
- 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





➤ Agtech Products Deliver Performance and Value

## DISHES

### 2 Well Dish with Lid

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

D11 20 dishes/pk

### 4 Well Dish with Lid

- Rounded and numbered wells 1.25" diameter
- Lid has frosted area for plate coding
- Polystyrene, Radiated
- Popular for thawing and freezing embryos

D12 10 dishes/pk

### Agtech 4 Well Dish with Lid

- 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



D12C 4 dishes/package  
30 or more pks  
60 or more pks  
120 or more pks

### 4 Well Nunc Dish with Lid

- 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

D12A 4 dishes/pk  
30 or more packs

### 6 well Dish, Agtech Solution™ 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

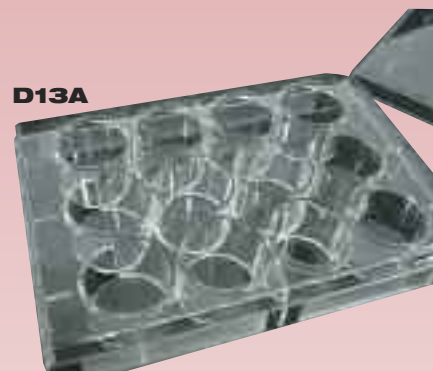


D12C

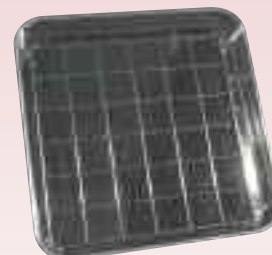


D18

D13A



D08



D09A



D10



F04 - F07



F15B



F15WT



F15LL



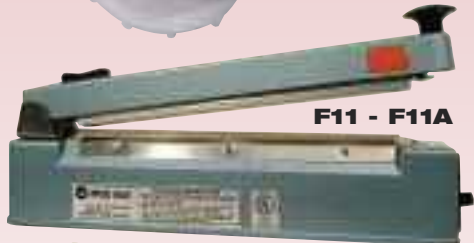
B4-1050



F14A - F14B



F16



F11 - F11A



F12 - F12B

**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.

DT6300	.25cc yellow, DT
	10 or more

**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



**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	
---------	--

**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	
-----	--

**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

➤ Agtech Products Deliver Performance and Value

**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



EQU030

**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

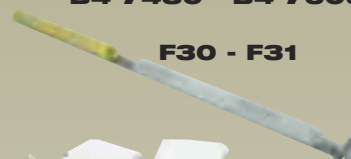


B4-7430 - B4-7609

**Canes, Aluminum**

Aluminum canes for holding goblets.

F30	11" cane hold two 10mm goblets, 100/pk.
F31	11" cane hold two 13mm goblets, 75/pk.



F30 - F31

**Cane ID Tabs**

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

F09A	white
F09AY	yellow



F09A - F09AY

**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



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
R4310	Replacement ribbon, black
PCK-5	Printer head cleaner kit

**Marking Pen**

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

F10



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



C19391N

61625

SAVB-104



**SAVL-102-25**



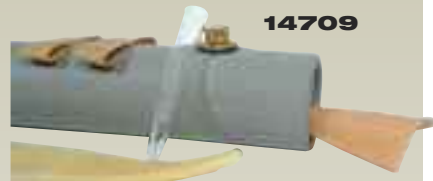
**C15245N**



**SAVF-102-25**



**1390**



**14709**



**7130 - 7100**



**B2-7000**



**581A-201**

## 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
-------	--------------------

## 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
---------	---------

## \*Slide Warmer

- F51A-202 Slide Warmer 37C, 230 volt
- 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
581A-209	Slide Warmer 39° C

“Agtech has the supplies I need at a reasonable price. Agtech has a wider range of the type of supplies we use. I have been very pleased with the selection Agtech offers. Your customer service has been excellent. Whenever I have called, I have gotten someone very pleasant and knowledgeable.”

T. Veley - Texas

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

**\*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

**\*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
---------	-------------------

**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 115m length, 25 sterile tubes/rack.

21008	centrifuge tubes
-------	------------------

**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
------	------------------



H25



B2-7500



EP06



21008



L14C

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



## 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	

### 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
----------	----------



“In today's fast paced world, it's almost expected to turn in orders by pressing buttons. That's not the case at Agtech. It's a helpful person on the other end of the phone. Personal service!

I have been to the business and have met the people. Very genuine and professional and right in the heart of good Kansas country.”

V. Behrens - Kansas

**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

“I think Agtech is one of the best companies in the world. You have good prices and your quality is the best. Agtech's service is friendly and nice.”  
A. Noboa Espana - Colombia



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.

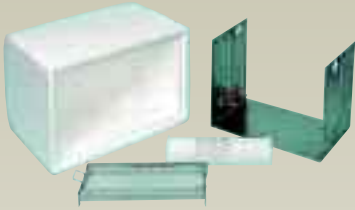
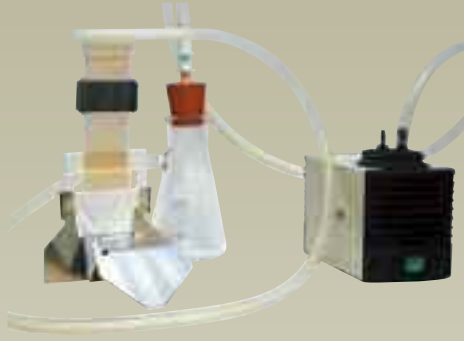
SM252

### \*Manual Semen Straw Freezing System

- Complete system for freezing 0.5cc semen straws includes:
- Styrofoam container with adjustable steel frame (average consumption is 6-8 liters of nitrogen depending on how many straws are frozen)
  - 58 straw freezing rack w/ block
  - Digital thermometer w/ 2 probes

Consult your Agtech sales representative for further details.

USA935



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



“Complaints about doing business with you I have not at all, on the contrary, always count on your products arriving on time. Your products are really very trustworthy for work, plus that the cost and materials are accessible. You always respond to my questions and your attention is the warmest, attentive and friendly.”

*M. Hernández, Paraiso- Mexico*

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



## 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- 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) Best for media coming in contact with embryos & cell culture work.

1 Box 2 or more Boxes

G01	1cc (AP) 100/box
G04A	3cc (AP) 100/box
G05	5cc (AP) 100/box
G06	10cc (AP) 100/box
G07	20cc (AP) 100/box
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-lock 100/box
G15	6cc 50/box
G16	12cc 80/box

### Ideal Syringes

3 part (RTP)- The lower cost alternative to Monoject -same great quality.

1 Box 2 or more Boxes

G39	3cc 100/box
G39A	3cc with 20ga, 1" needle luer-lock, 100/box
G41	6cc 100/box
G42	12cc 100/box
G45	35cc 50/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

1 Box 2 or more Boxes

	100/box, plastic hub except ( 16ga which are aluminum)
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"

### Ideal Needles

1 Box 2 or more Boxes

100/box, plastic hub. The lower cost alternative to Monoject- same great quality.

G46	16 ga x 1"
G48	18 ga x 1"
G49	18 ga x 1.5"
G50	20 ga x 1"
G51	20 ga x 1.5"

### CellSafe™ Syringes



## 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 Standard 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
- Each slot (5 slots total) may contain: 11 x 0.50cc straws, 17 x 0.25cc straws, Up to 9 CBS straws™
- The versatility of this chamber is achieved through a set of unique spacers/lifters. Select the lifter you need; .5cc straws, .25cc straws or ampoules.

CC5S

### 5 Slot Ampoule or Straw Fast 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 12°C/min. Rate at -40°C is 6°C/min

CC5F

### 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 Standard Cryochamber

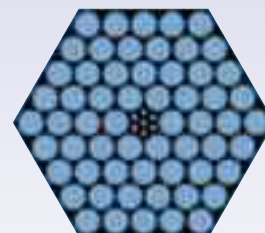
- Maximum Capacity: 60 x 1.0ml or 60 x 2.0ml cryovials
- Dimensions: 190 x 170 x 230mm
- Maximum Cooling Rates: Rate at 20°C is 3°C/min. Rate at -40°C is 1.5°C/min
- Each slot may contain: 1 x 1ml Cryovial or 1 x 2ml Cryovial. If only a few ampoules are being frozen it is recommended that they be distributed evenly, aiding thermal uniformity.
- The 60 ampoule cryochamber is designed to hold up to 60 x 1.0ml screw top (internal thread) ampoules (12 x 42 mm, ). Each ampoule is individually accessible. The chamber is supplied with the large 3.8 litre CryoBath (LNL). It is designed to replace 1°C/minute freezing in refrigerators as used by microbiology labs (freezing bacterial cultures), and is suitable for controlled-rate freezing for storage of tissues—plant and animal.

CC60AS

### 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



## 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
-----	----------------

### 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
UPB	Battery for P10 (replacement)
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.

### 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

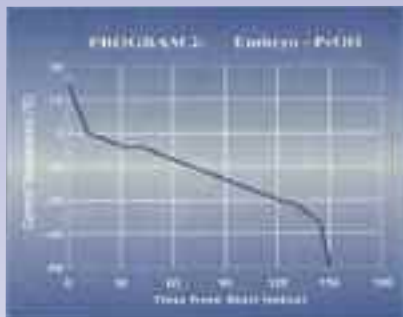
• Cryochambers can be supplied with Lifters to suit a variety of applications.

<b>Lifters for 5 Slot Cores</b>	
L35	CBS Straw Lifter, Set of 5
<b>Lifters for 23 Slot Cores</b>	
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



“I greatly appreciated your honesty and speed at which you processed my order. I have personally communicated with Orlando who has shown tremendous patience over my continued questions/inquiries on your products.”

*Dr. Mwaanga - Zambia*

## 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.

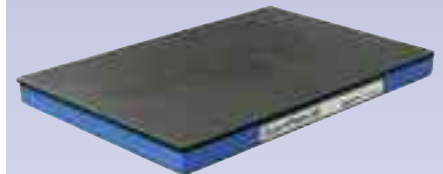
SPA5 bench top warm plate

### 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 84mm) 1 x 14ml or 15ml tube (17mm Ø x 88mm)		6 x 14ml or 15ml tubes (17mm Ø x 96mm) 6 x 5ml or 6ml tubes (12mm Ø x 83mm)		17 x 5ml or 6ml tubes (12mm Ø x 83mm)		14 x 1.8ml cryovials (13mm Ø x 24mm) 14 x Auto-sample tubes (5.5mm Ø x 93mm)		10 x 3.4ml or 3.5ml tubes (13mm Ø x 40mm)		12 x 10ml tubes (18mm 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

H08A	EMZ-5
H08AB	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



HO8TR



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.

H08TR	Trinocular Microscope
-------	-----------------------

**\*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.

ML2970	Trinocular Phase Contrast
ML2870	Binocular Phase Contrast



A4000

**\*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	
-------	--

**\*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.

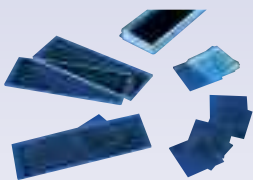
**Glass Slides and Cover Slips**

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.

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

Prosound 2      Hitachi Aloka Prosound 2

**\*Chison 600, Digital**

**The Versatile and Economical Ultrasound**

- **Excellent Image-** Large 10 Inch Monitor, SVGA flashing-free display
- **Compact & Ergonomic design-** Fold up keyboard, 15.4 lbs (7 Kgs)
- **Special design for veterinarians-** 4-step Multi-frequency probes, 80 elements
- **Enhanced memory-** 64 frames CINE memory and 8 frames permanent storage
- **Multi-functional-** Probes for pregnancy checking, abdominal and cardiology exam
- **2 year warranty**
- **Soft side carry case**

System includes a 5.0Mhz linear multi-frequency rectal probe.

600Vet      Chison 600 Vet

**\*Chison 8300**

Digital Portable Ultrasound System, 30lbs

- **Premium Image Quality**
  - Ergonomic Keyboard
  - Flexible peripheral ports to ultrasound
  - Deluxe trolley
- Measure fetal weight, fetal heart measurement, gestational age
- Image permanent storage: Hard disk, USB (2 ports)
- Soft side carry case
- Optional trolley available for additional charge

8300      Chison 8300



**Hitachi Aloka Prosound 2**



**Chison 600**



**Chison 8300**

\* 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 <sup>2</sup> days	100	230	221	340	87	200	130	10	45	
Working Time <sup>1</sup> days	62	140	138	212	54	125	81	-	-	
Evaporation Rate <sup>1</sup> 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	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 <sup>3</sup>		6	6	6	6	6	6	6 <sup>4</sup>		
Canister Dim. <sup>4</sup>	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/canes)		150	150	210	150	570	570	1050		
Number of 1.2 ml & 2.0 ml vials (6/canes)		180	180	720	180	684	684	1260		
Number of .5cc straws (10/canes)		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.	
• <b>DIP STICK</b> Fits Taylor or MVE tanks	TW26	
• <b>CANISTER</b> Specify tank model	TW10	
• <b>ROLLER BASE</b> — Allows easy movement of full tanks	TW28	
• <b>SPARE NECK CORK/FOAM</b> Specify tank model	TW26A	

**Footnotes:**

<sup>1</sup>Evaporation 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.

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

<sup>3</sup>Without canisters or racks.

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

<sup>5</sup>Optional 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
<b>MAXIMUM STORAGE CAPACITY</b>									
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	-	-	-						
<b>PERFORMANCE</b>									
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	
<b>UNIT DIMENSIONS</b>									
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
<b>PERFORMANCE</b>	
Liquid nitrogen capacity (liters)	10
Static evaporation rate (liters/day)	0.18
<b>UNIT DIMENSIONS</b>	
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



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

**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.

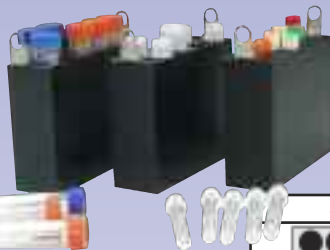
Vacuum Warranty 3 years on vapor tanks, 5 years on all others

\*\* 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.**



**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	
<b>Capacity:</b>	12 x tubes (15mm dia. x 94mm) 1 x 14 or 15ml tubes (17mm dia. x 98mm)	<b>Capacity:</b>	6 x 14 or 15ml tubes (17mm dia. x 96mm) 6 x 6ml tubes (12mm dia. x 63mm)	<b>Capacity:</b>	14 x 1.8ml cryovials (13mm dia. x 30mm) 14 x auto-sample tubes (8.5mm dia. x 98mm)	<b>Capacity:</b>	17 x 5 or 6ml tubes, (12mm dia. x 63mm)
<b>Product Code:</b>	<b>BT-INC-A12/1</b>	<b>Product Code:</b>	<b>BT-INC-F6/6</b>	<b>Product Code:</b>	<b>BT-INC-L14/14</b>	<b>Product Code:</b>	<b>BT-INC-G17</b>

V12 Core		E10 Core		M2/E4 Core		M2/G8 Core		M3/G4 Core	
<b>Capacity:</b>	12 x 10ml tubes, (16mm dia. x 92mm)	<b>Capacity:</b>	10 x 14 or 15ml tubes (17mm dia. x 98mm)	<b>Capacity:</b>	2 x 50ml tubes (30mm dia. x 98mm) 4 x 14ml or 15ml tubes (17mm dia. x 98mm)	<b>Capacity:</b>	2 x 50ml tubes (30mm dia. x 98mm) 8 x 5ml tubes (12mm dia. x 63mm)	<b>Capacity:</b>	3 x 50ml tubes, (30mm dia. x 98mm) 4 x 5ml tubes, (12mm dia. x 63mm)
<b>Product Code:</b>	<b>BT-INC-E10</b>	<b>Product Code:</b>	<b>BT-INC-E10</b>	<b>Product Code:</b>	<b>BT-INC-M2/E4</b>	<b>Product Code:</b>	<b>BT-INC-M2/G8</b>	<b>Product Code:</b>	<b>BT-INC-M3/G4</b>

“Agtech for me is a very helpful one-stop-one-shop supplier of my AI and ET requirements.”  
*B. Badilla- Philippines*

**\*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



586A-201

**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



B6-6280



C12004N

**Thaw Unit, CITO**

Use this field tested and proven thaw unit for properly thawing semen at a constant temperature of 95-98 degrees Fahrenheit through correct, accurate, and sensitive thermostatic control. Or this system can be used for thawing embryos by setting the temperature at 86 degrees Fahrenheit. Made of tough ABS non corrosive plastic, the unit will take a lot of abuse, but at the same time protect all of its working elements within a degree. Indicator lights show when the unit is ready to use and when it is working and maintaining water bath at the proper temperature. The hinged lid is a reinforced nylon and the replaceable cover seal is of thermoplastic rubber. Includes a lift out basket, Fahrenheit thermometer and power cord.

C12005N 12V DC unit w/12ft cord

C12004N 110 unit w/6 ft cord

C12003N 220 unit w/6 ft cord

**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 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; Dimensions: 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



B6-6330D

**Thermometer**

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



H30

H31

**AI Supply Case**

- Perfect for carrying your thaw unit

Cito's AI Kit Case is sturdy, yet light weight, made of non-corrosive ABS plastic material. Complete with its removable accessories tray, and sheath storage compartment in the cover. Contains no products. Weighs 7 lbs.

H30 AI Supply Case

**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 1/2" 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

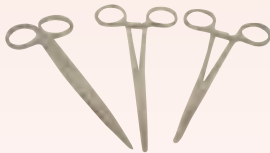


J18

J20



J13



**Estrotect™ 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.

J24A	Fluorescent Pink
J24C	Fluorescent Orange

**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
-----	---------------

**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
---------	--------------

**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
-----	-------

**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	
-----	--

**Alconox, detergent**

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

J23	4lb carton
-----	------------

**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

## Agtech's Bovine Embryo Transfer Training DVD and Book



### Cattle Embryo Transfer Procedure

"Cattle Embryo Transfer Procedure" is an instructional manual for the large animal veterinarian, beef cattle breeder, dairyman, artificial insemination technician and university research scientist. Newly updated in 2009, this comprehensive step-by-step laboratory training manual incorporates all the elements for a successful embryo transfer program.

Today due to the refinement of embryo transfer techniques, cows can produce thirty or more offspring annually. The addition of embryo transfer technology to a cattle reproductive management program complements an artificial insemination program, resulting in more rapid genetic gain than could be realized for AI alone.

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. ISBN 978-0-615-31349-8 ©2009 John L. Curtis

V01 Book & DVD

### Procedimiento de Transferencia de Embriones en Bovinos

"Procedimiento de Transferencia de Embriones en Bovinos" es un manual de instruccion para el veterinario de grandes animales, productor de ganado de carne, productor de leche, tecnico en inseminacion artificial, y el cientifico universitario. Recientemente revisado, este detallado manual tecnico de laboratorio incorpora paso a paso todos los elementos para un exitoso programa de transferencia de embriones.

Hoy, debido a las refinadas tecnicas de la transferencia de embriones, las vacas pueden producir anualmente treinta o mas descendientes. La adiccion de la tecnica de transferencia de embriones a un programa reproductivo de vacunos complementa un programa de inseminacion artificial, resultando en una ganancia genetica mas rapida que con solo la inseminacion artificial.

El libro incluye un DVD de acompanamiento demostrandole los pasos de la transferencia de embriones de la vaca al laboratorio. Ud. vera como coleccionar, transferir, congelar y descongelar embriones. Incluida esta una seccion especial en la clasificacion y categorizacion de embriones. ISBN 978-0-615-31349-8 ©2009 John L. Curtis

V01C Libro & DVD in Español



## Agtech Bovine Embryo Transfer and A.I. Classes



### Complete Bovine Embryo Transfer Class

The staff at Agtech is proud to offer 3 days/30 hours of comprehensive, hands-on instruction designed specifically for dairymen or ranchers wanting to perform embryo transfer for themselves, on their own cattle. Agtech's detailed training class also provides the large animal veterinarian with the knowledge and skills essential for successfully incorporating embryo transfer service into his/her practice. Once the course is completed you will have all the information necessary to perform embryo transfer. The class is just 3 days, and not longer, because your time is spent on learning procedures and not on making products that are readily available for purchase.

Learn how to:

- 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.

To learn more, view dates and tuition visit our web site at [www.agtechinc.com](http://www.agtechinc.com) or call us 800.467.4016 ext. 1



### Transferring Bovine Embryos Class

Our one day class teaches you how to successfully implant frozen direct transfer (DT) and fresh embryos into recipients. This hands-on instruction class is designed for dairymen or ranchers wanting to transfer embryos for themselves, into their own cattle. Large animal veterinarians will learn the skills necessary for implanting embryos for clients and adding value to their practice. The only course prerequisite is that you are experienced and competent in cattle artificial insemination.

Learn how to:

- Palpation of recipient ovaries and identification of ovarian structures.
- Embryo thawing and handling techniques.
- How to implant both direct (ethylene glycol) and fresh embryos.
- Cutting edge recipient synchronization protocols.

To learn more, view dates and tuition visit our web site at [www.agtechinc.com](http://www.agtechinc.com) or call us 800.467.4016 ext. 1



### Bovine Artificial Insemination Class

Agtech is proud to partner with ABS Global in offering you a complete and hands-on bovine A.I. class. Increase your operation's profitability and efficiency by learning the skills and techniques of A.I.

Learn how to:

- Cattle artificial insemination procedure
- Frozen semen handling and thawing
- Basic anatomy of female reproductive tract in cattle
- Heat detection systems
- Synchronization systems for heifers and cows

To learn more, view dates and tuition visit our web site at [www.agtechinc.com](http://www.agtechinc.com) or call us 800.467.4016 ext. 1



“The size of the class was great. It seemed to make it a little more relaxed and there wasn't standing in line waiting. Jon was very patient and very helpful. The facilities were great. The classroom was comfortable and the teaching was excellent.”

H. Klausen- NE

“If you really want to learn ET, Agtech will teach you everything you need to know. Dr. Curtis has had many years of experience that give added benefit to the class.”

—N. Schleinig- CO



896V



5912 &amp; 2912



618V



100S



100Z



180VW



180V



### Vaccination Vest

The one and only Vaccination Vest that is extremely durable and can also be a multi-purpose vest with all it's pockets. Full brass zipper front. Made of 8.5 - ounce spruce twill 65% polyester/35% cotton. Made in the USA

896V Small - XLarge

### 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

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. Order by chest size 34-46 and inseam sizes: short Short 30" (5'8), Regular 32" (5'9 to 6'0), Tall 34" (6'1 to 6'3).

100S

### 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

180VW 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

2, 4, 12 Well Dishes . . . . .	15	Flunixinamine . . . . .	4	Regu-Mate . . . . .	3
Acepromazine . . . . .	4	Folltropin . . . . .	2	Sani-Shield Rod Protectors . . .	10
Acrodisc Filter . . . . .	14	Forceps . . . . .	34	Scissor . . . . .	34
Antibiotic/Antimycotic . . . . .	9	Form, Embryo Data . . . . .	34	Sealing Plugs . . . . .	16
AV Cones/Liners . . . . .	17-18	Freeze Control Systems . . . . .	24-26	Sealing Powder . . . . .	16
AV Kit, Equine . . . . .	17	Gentamicin . . . . .	4	Semen Extenders . . . . .	19-20
AV Liners, Bovine . . . . .	18	Gloves/Breeding & Collection . .	11	Semen Filters . . . . .	18
AV, Bovine . . . . .	18	Goat Insemination . . . . .	10	Semen Stain . . . . .	21
AV, Equine . . . . .	17	Goblets . . . . .	17	Semen Transport . . . . .	22
AV, Sheep & Goat . . . . .	18	Guns/Rod, Insemination . . . . .	10-11	Serums . . . . .	9
Banamine . . . . .	4	Heat Detection . . . . .	33-34	Sheaths . . . . .	10-11
BioLife Media . . . . .	6, 9	Heat Sealer . . . . .	16	Shipping Information . . . . .	1
BSA w/Anti-Anti . . . . .	9	ID/Cane tabs . . . . .	17	Sleeves . . . . .	11-12
Canes . . . . .	17	Incubators . . . . .	32	Slide Warmer . . . . .	18
Case, ET & AI . . . . .	33	Infusion Pipettes . . . . .	11	Slides/Cover Slips . . . . .	28
Catheters . . . . .	12-13	Insemination Guns . . . . .	10	Speculum, Equine . . . . .	34
Centrifuge . . . . .	22	Insemination Tubes, Equine . . . .	11	Sterilization Tubing . . . . .	33
Centrifuge Accessories . . . . .	19	IVF Catheter . . . . .	14	Storage & Transport Tanks . . . .	30-31
Chemise . . . . .	10	Kimwipes . . . . .	34	Straw Cutter . . . . .	16
CIDR . . . . .	3	Kit, AI Equine . . . . .	17	Straw Freezing Systems . . . . .	22
Chorulon . . . . .	2	Labeling System . . . . .	17	Straw Tweezers . . . . .	16
Cryologic Freezers . . . . .	24-26	Lidocaine . . . . .	4	Straws . . . . .	16
Culture Tube . . . . .	15	Liners, Equine . . . . .	17-18	Stylets . . . . .	13
Cystorelin . . . . .	3	Liners, Bovine . . . . .	18	Syringes . . . . .	23
Data Form, Embryo . . . . .	34	Lubricant . . . . .	12	Thaw Unit . . . . .	33
Densimeters . . . . .	21	Lutalyse . . . . .	2	Thermocouple . . . . .	33
Detergents . . . . .	34	Marking Crayons . . . . .	34	Thermometers . . . . .	33
Dishes . . . . .	15	Marking Pen . . . . .	17	Thermos . . . . .	33
Disinfectant Wash . . . . .	34	Media, Embryo . . . . .	6-9	Tom Cat Catheters . . . . .	14
Dispensing Bag . . . . .	34	Microdispenser . . . . .	14	Transfer Guns . . . . .	10-11
D-PBS Holding . . . . .	9	Microscopes . . . . .	28	Trypsin . . . . .	9
Ejaculators . . . . .	19	Needles . . . . .	23	Tubing . . . . .	14
Emcare Media . . . . .	8	Nitrogen Tanks . . . . .	30-31	Tubing, Sterilization . . . . .	33
Equine, Culture Swab . . . . .	34	Nuflor . . . . .	4	Ultrasounds . . . . .	29
Estrumate . . . . .	2	Ordering Information . . . . .	1	Vapor Shippers . . . . .	30-31
Ethylene Glycol Freeze . . . . .	6-8	Oversleeve . . . . .	10	ViGro Media . . . . .	7
Exam Gloves . . . . .	11	Oxytocin . . . . .	4	Vitrification . . . . .	17
Excenel . . . . .	4	P.G.600 . . . . .	2	Warm Stage . . . . .	27
EZ Mixin Semen Extender . . . . .	20	Pipettors . . . . .	14	Water Bath . . . . .	33
Factrel . . . . .	3	Pipettes, glass . . . . .	21	Whirl Pak . . . . .	19
Fertagyl . . . . .	2	Pipettes, infusion . . . . .	11	Y-junction tubing . . . . .	14
Filter, Semen . . . . .	18	Pluset . . . . .	2		
Filters . . . . .	14	Prescription Form . . . . .	5		

## Agtech Brand Products



BioLife™ Media & Additives . . . . .	6, 9
Embryo Transfer Book & DVD . . . . .	35
Rapid-Flow™ Y-Tubing . . . . .	14
Reproduction Hat . . . . .	36
Sheaths . . . . .	10
Solutions™ Dishes . . . . .	15
Straw Connector and Sealing Plugs . .	16
Vortech™ Catheters . . . . .	12-13
Zona™ Filter . . . . .	14

Prices are subject to change without notice. We reserve the right to limit quantities. The information contained in this catalog has been gathered from many sources with the utmost care. However, because of the possibility of human or typographical errors in transposing such a large volume of material, AGTECH, Inc. disclaims responsibility for errors in pricing, for the use or misuse of any products described in this catalog, and for any losses incurred through the use of products according to methods described in this catalog. Always refer to and follow the label directions. AGTECH, Inc. specifically does not authorize anyone, its agents, distributors or employees to recommend use of any product sold by AGTECH, Inc. in any way other than according to manufacturer's current label directions. AGTECH, Inc. disclaims responsibility for losses incurred due to delays or errors in shipment.

Please note that this material is copyright protected. Therefore, it is illegal to display or reproduce the text or photos for any commercial purpose, including use for marketing or public relations literature.



# BioLife™ Media

Trusted by reproductive specialists since 1993.

“ Of all the products we purchase from Agtech the one that has helped us the most to increase pregnancy rates is the BioLife Advantage. ”

Dra Maria Davalos, Argentina



- 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
- Includes an injection port

**Reduce your flushing, transferring and freezing costs. Use BioLife Media by Agtech. (See page 8)**



Agtech, Inc. USA  
Embryo Transfer and Artificial Insemination Products & Training  
[www.agtechinc.com](http://www.agtechinc.com)

USA Sales Call: 800.367.4016 ext. 1  
Email: [tpatterson@agtechinc.com](mailto:tpatterson@agtechinc.com)  
International Sales Call: 913.381.2822  
Email: [o.quiroga@agtechinc.com](mailto:o.quiroga@agtechinc.com)

8801 Anderson Avenue  
Manhattan, KS, 66503, USA

Return Service Requested