



FRESH EXPRESS[®] KIT

Inventory List

The following is a list of the items contained in the FRESH EXPRESS[®] Kit. Please check all the contents upon receipt of the kit. If any materials are missing, please contact Synbiotics Technical Service immediately at (800) 228-4305 or (816) 464-3500.

- 1 FRESH EXPRESS[®] shipping box with Styrofoam[®] liner
- 2 Chill packs – ***Place chill packs in freezer upon arrival, for at least 24 hours.***
- 1 Vial of FRESH EXPRESS[®] Semen Extender – ***Refer to instructions for storage details.***
- 1 Vial of Semen Separating Solution – ***Refer to instructions for storage details.***
- 1 Small Styrofoam[®] box with cardboard sleeve and plastic zipper bag
- 1 FRESH EXPRESS[®] Canine Semen Shipping Tube
- 1 FRESH EXPRESS[®] Canine Insemination Syringe
- 1 Eight-inch insemination pipette
- 1 Twelve-inch insemination pipette
- 1 Semen Collection Evaluation and Insemination Form
- 1 FRESH EXPRESS[®] Extender Instructions
- 1 Semen Separating Solution Instructions
- 1 Collection/Insemination Record
- 1 Instructions for the Insemination
- 1 AKC Application to Register a Litter Resulting from Artificial Insemination Using Fresh Extended Semen

Semen collection supplies are not contained in this kit and must be ordered separately. Newspaper is also recommended to wrap around the inner Styrofoam[®] box for added insulation.

THESE ITEMS ARE NON-RETURNABLE







Note: FRESH EXPRESS[®] Semen Extender is packaged in 10 ml aseptic vials. Extender can be stored in the refrigerator for up to 30 days. If longer storage is required, it can be stored in the freezer until the expiration date stated on the bottle (do not thaw and refreeze). Please see FRESH EXPRESS[®] Extender Instructions for more information.

Semen Separating Solution should **NOT** be frozen.



Veterinary Breeding Supply Price List
 12200 NW Ambassador Drive, Ste 101
 Kansas City MO 64163
 To Order Call: (800) 228-4305 or 816-464-3500
 Fax Orders to: (816) 464-3521
 Email orders to: customerservice1@synbiotics.com

Collection and Insemination Supplies

Item #	Product Description	How Packaged	Recommended Quantities
 99-4950	Semen Separating Solution (Translucent Green) Used to concentrate sperm cells from ejaculate	6 ml vial	Min 2* / 20
 99-4350	FRESH EXPRESS® Extender (Opaque Green) Used to buffer the sperm rich fraction of the ejaculate for transport	10 ml vial	Min 2* / as needed
99-9911	Freeze Buffer (Yellow)* Used during the process of freezing semen <i>Product will automatically incur overnight shipping costs.</i>	6 ml vial	Min 5* / 10-25
99-9919	Dilution Buffer (Red)* Used to adjust sperm cell concentration in ejaculate for freezing <i>Product will automatically incur overnight shipping costs.</i>	6 ml vial	Min 5* / 20-50
99-4011	FRESH EXPRESS® Kit Materials for 1 shipment and 1 insemination; the kit includes the following: 1 - FRESH EXPRESS® Extender 99-4350 (product entered on separate line at no charge) 1 - Semen Separating Solution 99-4950 (product entered on separate line at no charge) 1 - Shipping Container 1 - Small Styrofoam® box with cardboard sleeve and plastic zipper bag 1 - FRESH EXPRESS® Canine Semen Shipping Tube 1 - FRESH EXPRESS® Canine Insemination Syringe 2 - Chill Bricks 1 - 8" Pipette and 12" Pipette Instructions and AKC Registration Form	1 kit / shipper	As needed
99-4620	Disposable Collection Kit for A.I. 5 A.V.s, 5 Tubes and 15 Docking Rings	5 sets / pack	10-20 sets
 99-9540	A.I. Pipettes 8 inch Insemination pipettes	4 each	As needed
 99-9530	A.I. Pipettes 12 inch Insemination pipettes	4 each	As needed
 99-4351	FRESH EXPRESS® Canine Semen Shipping Tube Orange capped tube used to hold extended smen within FRESH EXPRESS® Kit	1 each	As needed
 99-4352	FRESH EXPRESS® Canine Insemination Syringe 10 ml, latex free syringe which can be attached to pipettes for canine fresh or fresh chilled insemination	1 each	As needed
99-4960	Eau d' Estrus Odor attractant/Synthetic Pheromone	8.5 ml	As needed
99-7515	Canine Fresh Semen Training Manual Manual containing an overview of canine ovulation timing and detailed instructions for fresh canine semen collection and artificial insemination.	1 set	As needed
99-7520	Reproduction Referral Network Fresh Chilled Semen Training Kit* Provides self training manual, written exam, and supplies for collection and processing of fresh chilled canine semen to allow clinic to be included in Synbiotics Reproduction Referral Network (www.synbiotics.com). Includes: 1 - FRESH EXPRESS® Kit (99-4011) 1 - Disposable Collection Kit for A.I. (99-4620) 1 - Reproduction Referral Network Fresh Chilled Semen Training Manual	1 set	As needed

 Refilling product for the FRESH EXPRESS® Kit

Reproduction Diagnostics

96-0372	D-TEC® CB - RSAT* Canine Brucellosis Rapid Slide Agglutination Test Kit	10 tests / kit	As needed
96-0370	D-TEC® CB - RSAT* Canine Brucellosis Rapid Slide Agglutination Test Kit	25 tests / kit	As needed
96-0335	OVUCHECK® Premate 10 - ELISA Canine Progesterone Assay	10 tests / kit	As needed
96-0310	ReproCHEK® - ELISA Canine Pregnancy Test Kit	16-46 tests /kit	As needed
96-0270	WITNESS® LH Canine Luteinizing Hormone Assay	6 tests / kit	As needed
96-0303	WITNESS® RELAXIN Canine and Feline Pregnancy Test	5 tests / kit	As needed

Prices subject to change without notice

*For Veterinary Use Only
ALL SALES ARE FINAL.

Prices Effective January 1, 2011

All sales are subject to shipping and handling charges.



Semen Separating Solution Instructions

The following technique should be used to separate sperm cells from the seminal plasma if fractions were not separated during the collection process.

Introduction

It is important to use only the sperm-rich fraction (SRF) when diluting semen for chilled extended semen breeding, since the inclusion of seminal plasma will, in most cases, decrease the survival time and fertility of the sperm. SRF should be thick and white, with average volume of 0.5 to 2.0 ml, depending on the size of the dog. Although the volume at which a semen sample requires concentration is variable, use the following general guidelines: Small breeds >0.5 ml; Medium breeds >1.0 ml; Large breeds >1.5 ml; Giant breeds >2.0 ml.

Equipment required

- Clinical centrifuge
- Semen sample
- Polystyrene centrifuge tube
- Semen Separating Solution
- FRESH EXPRESS® Semen Extender (at room temperature)

Instructions

1. Remove FRESH EXPRESS® Semen Extender from the refrigerator/freezer and bring to room temperature before use. Extender can be stored in the refrigerator for up to 30 days. If longer storage is required, it can be stored in the freezer until the expiration date stated on the bottle (**do not thaw and refreeze**).
2. Open the vial of Semen Separating Solution (SSS). Draw up 0.75 ml of solution and place in centrifuge tube.
3. Slowly layer the semen on top of the SSS to form two distinct layers. Although mixing of the layers is less desirable, it will still allow for separation with centrifugation. NOTE: Do not put more than 6 ml of semen in one tube. If you have more than 6 ml, prepare two tubes. Each vial contains enough SSS to allow for this eventuality.
4. Centrifuge the semen and SSS at 2000 rpm or 100-150 G for 5 minutes. This should produce a soft pellet of sperm cells at the bottom of the centrifuge tube. Spinning faster or longer than recommended may result in damage to sperm cells.
5. Using a pipette, remove the seminal plasma and SSS above the soft pellet. Remove as much as possible without disturbing the pellet.
6. Add 4-6 ml of room temperature FRESH EXPRESS® Semen Extender to the soft pellet and mix gently by rotating the tube. Examine a drop of extended semen for motility. Package and ship as usual.



FRESH EXPRESS[®] *Semen Extender Instructions*

1. Synbiotics FRESH EXPRESS[®] Semen Extender is packaged in 10 ml aseptic vials. Extender can be stored in the refrigerator for up to 30 days. If longer storage is required, it can be stored in the freezer until the expiration date stated on the bottle (**do not thaw and refreeze**). Extender must be at room temperature before use.
2. Dilute 1 part Sperm Rich Fraction (SRF) to 2 - 4 parts Extender. It is important to add the Extender slowly to avoid osmotic shock to the sperm cells.
3. The highest level of success is achieved when the SRF alone is used. Typically dogs produce 0.5 - 2.0 ml of SRF. Fractionation becomes easier with practice. If the volume of SRF collected is greater than 2.0 ml, contamination with pre- and/or post-ejaculate has most likely occurred. To insure maximal sperm survival, Synbiotics Semen Separating Solution should be used.
4. If the semen is being chilled and shipped, appropriate shipping materials (as in the FRESH EXPRESS[®] Kit), should be used to maximize sperm survival. Complete Part A of the enclosed *Semen Collection/Insemination Record* and Parts 2 and 3 of the *AKC Artificial Insemination Using Fresh Extended Semen* form and include both with the semen going to the inseminating veterinarian. Most shipments may be made using an overnight service.

IMPORTANT!

Shipping Instructions:

- Clearly provide identification of the contents of the sample tube:
 - Stud Dog:
 - Collection Date:
 - Bitch Owner:
- Place the sample tube inside the zip-lock bag and place the bag inside the small-insulated box.
- Wrap the small-insulated box with newspaper to further insulate the sample.
- Place the newspaper-wrapped small box inside the large insulated shipping box with a chill pack on each side.
- Complete **Part A** of the **Semen Collection/Insemination Record** and enclose the entire form in the box.
- Include an insemination kit with each shipment. The **Inseminating Packet** must be included in the initial shipment.
- Ship semen sample to the insemination. Most shipments can be sent using an overnight service. **REMEMBER:** It is important to coordinate these shipments in advance.
- Notify the inseminating location of the shipment and include information about the date, method of shipment and its tracking or air bill number.



FRESH EXPRESS®

Collection/Insemination Record

PART A. TO BE COMPLETED BY THE COLLECTING VETERINARIAN OR AGENT (PLEASE PRINT)

STUD OWNER		VETERINARIAN OR COLLECTING AGENT					
STUD'S CALL NAME		CLINIC NAME IF APPLICABLE					
AKC REQUIRES: REG NUMBER & DNA PROFILE		ADDRESS					
BREED	AGE	TELEPHONE					
COLLECTION DATE	TEASER BITCH			MALE LIBIDO		COLLECTION VOLUME (cc)	
	TIME	A. Used	yes	no	F. Libido	LOW	1 st Fraction
TIME ZONE:	Pacific	B. In Estrus	yes	no	MODERATE	HIGH	2 nd Fraction
	Mountain	C. Swab Scent	yes	no	HIGH	Other:	3 rd Fraction
	Central	D. Chemical Scent	yes	no			
	Eastern	E. Mount	yes	no			
COLOR / CLARITY:		YELLOW	RED	CLEAR	OPALESCENT / THIN	CLOUDY / THICK	OTHER CELLS:
MOTILITY %		SPEED:		SLOW	MODERATE	FAST	NONE
MOTILITY QUALITY:		POOR	FAIR	AVERAGE	GOOD	EXCELLENT	RBC
SPERM CONCENTRATION:		LOW	ADEQUATE	HIGH	MORPHOLOGY ABNORMALITIES:		
SPERM COUNT (optional):		Million sperm cells/ejaculates					
SEMEN HANDLING		Semen Separating Solution Used		Diluent used	Time of Dilution	Estimated Diluent volume	Semen : Diluent Ratio
Initial Volume	cc	Yes	No	FRESH EXPRESS	am/pm	cc	:
Final Volume		cc					
COLLECTION NOTES:							

PART B. TO BE COMPLETED BY THE INSEMINATING VETERINARIAN OR AGENT (PLEASE PRINT)

BITCH OWNER				VETERINARIAN OR AGENT						
BITCH'S CALL NAME				CLINIC'S NAME						
AGE				ADDRESS						
TODAY'S VAGINAL SMEAR				TELEPHONE						
				% Cornified						
INSEMINATION				POST CHILL RESULTS (Evaluate a drop of semen on a pre-warmed slide - see instructions)						
DATE	TIME	am or pm	Motility	%	Speed:	SLOW	MODERATE	FAST		
TIME ZONE	Pacific	Mountain	Central	Eastern	Motility Quality	POOR	FAIR	AVERAGE	GOOD	EXCELLENT
INSEMINATION NOTES:										



Performing Fresh Chilled Semen A.I. in the Bitch

Instructions for the Inseminating Veterinarian

In fresh chilled semen breedings, the insemination should be performed during the fertile period, usually on days 4 and 6 after the LH surge. By properly planning multiple inseminations, you'll optimize the chances of success. (*The Synbiotics Fresh Chilled Semen Breeding Training Manual contains more details on timing procedures and insemination technique*).

1. Check orange capped centrifuge tube for name of stud dog, collection date, and bitch owner.
2. The semen should be inseminated within 15 minutes after removal from the chilled package. Gently rotate the tube to re-suspend the sperm cells, as they tend to settle out. Evaluate a drop of semen for motility.
3. Draw 3 ml of air into the syringe (to clear the pipette at the end of the insemination).
4. Draw all the semen into the syringe and attach the pipette.
5. Have the bitch on a table or on the floor, depending on her size and how you and the dog are most comfortable. Make sure an assistant is available to restrain her as necessary.
6. Spread the labia and pass the tip of the insemination pipette dorsally toward the vaginal opening, ventral to the rectum. The pipette should be in an almost vertical direction at this stage. To further pass the pipette, redirect it in a horizontal position and gently advance it toward the cervix. The vaginal folds may produce temporary resistance, but may be avoided by spinning and rolling the pipette as it is advanced.
7. The pipette tip will usually stop at the dorsal fold of the anterior vagina. It is recommended, but not necessary to advance beyond the dorsal fold. Do this by applying slight pressure in a ventral direction while advancing the pipette. The insemination pipettes are marked at 5 cm intervals. The pipette should be advanced as far as possible. Generally, in most giant bitches, the pipette should be passed a full 25 cm. In large bitches, pass the pipette 22-24 cm.
8. In small to medium bitches, advance the pipette 15-18 cm. In toy breeds, pass the pipette 5-10 cm, or just past the first mark. Check the position of the pipette by abdominal palpation. In many bitches you can feel the cervix, which should be just cranial to the tip of the insemination pipette.
9. Elevate the hindquarters of the bitch.
10. Keeping the hindquarters elevated, turn the syringe vertically with the plunger in the uppermost position, and inject the inseminant, finishing with the air left in the syringe to clear the pipette.
11. Withdraw the pipette, keeping the bitch's hindquarters elevated.
12. Gently stimulate the vaginal wall with gloved finger for 5 minutes ("feathering").
13. Keep the hindquarters elevated for an additional 5 to 10 minutes after stimulation is completed.

Processing Records

- Return one copy of Collection/Insemination record to collecting veterinarian or agent.
- Return completed AKC form to the bitch owner, if applicable.

Breeding Follow-Up

It is recommended that a pregnancy diagnosis be made using WITNESS[®] RELAXIN after day 31 post-LH surge (although some dogs may be detected as early as day 20, or by palpation and/or ultrasound at approximately 28 days after the LH surge). Whelping can be expected at approximately 65 days plus or minus one day after the LH surge.



Sire and Dam Information Please reenter the registration numbers of the Sire and Dam from page 1

AKC Number of Sire (Male)

AKC Number of Dam (Female)

Dam (Female) Information: To Be Completed and Signed by All Owners or Lessees of Dam on Date of Birth

AKC will send the litter kit (one registration application for each puppy) to the address below.

1st Owner's First Name, 1st Owner's Last Name, Mailing Address, City, State, ZIP code + 4, Telephone Number, Email Address, 2nd Owner's First Name, 2nd Owner's Last Name

I (we) certify that I (we) am (are) the owner(s) or lessee(s) of the identified Dam on the date of birth of the litter, and that this Dam was not inseminated by or mated to any other dog during her season. I (WE) AGREE THAT ANY CAUSE OF ACTION, CONTROVERSY OR CLAIM ARISING OUT OF OR RELATED TO THIS REGISTRATION OR AS TO THE CONSTRUCTION, INTERPRETATION AND EFFECT OF THIS AGREEMENT SHALL BE SETTLED BY ARBITRATION PURSUANT TO THE APPLICABLE RULES OF THE AMERICAN ARBITRATION ASSOCIATION. HOWEVER, PRIOR TO ARBITRATION ALL APPLICABLE AKC BYLAWS, RULES, REGULATIONS AND PROCEDURES MUST FIRST BE FOLLOWED AS SET FORTH IN THE AKC CHARTER AND BYLAWS, RULES, REGULATIONS, PUBLISHED POLICIES AND GUIDELINES.

1st Owner's Signature, 2nd Owner's Signature

Extraction: To Be Completed and Signed by the Person Authorized to Extract and Extend the Semen

I certify that on [Month] - [Day] - [Year] I extracted semen from the above identified male, whose semen was extended and shipped to:

First Name, Last Name, Signature, Street Address, City, State, ZIP code + 4, Telephone Number

Insemination: To Be Completed and Signed by the Person Authorized to Receive the Semen and Inseminate

I certify that on [Month] - [Day] - [Year] I received the fresh extended semen collected from the above identified male and inseminated the above identified female with that semen.

First Name, Last Name, Signature, Street Address, City, State, ZIP code + 4, Telephone Number

This artificial breeding was effected at the following location (if different than the preceding address):

Location, Street Address, City, State, ZIP code + 4



General Information and Instructions							
Purpose	Use this application to register a litter of puppies, resulting from artificial insemination, that was inseminated and whelped in the USA from an AKC-registered female and the fresh extended semen of an AKC-registered male or an approved foreign male of the same breed. AKC rules and regulations may be viewed on our Web site: www.akc.org .						
Mandatory Requirements for Fresh Extended Semen	<ol style="list-style-type: none"> After October 1, 1998, AKC 'DNA Profiling' is required for all stud dogs whose semen is collected for fresh extended semen use, including foreign stud dogs whose semen is collected and extended to be imported for use in the United States. The certifications on this application must be completed and signed in compliance with AKC regulations. 						
Other Artificial Insemination Litters	<p>Frozen Semen: Submit an Application to Register a Litter Resulting from Artificial Insemination Using Frozen Semen</p> <p>Fresh Semen: Submit an Application to Register a Litter Resulting from Artificial Insemination Using Fresh Semen.</p> <p>Note: These forms are available on our Web site: www.akc.org</p>						
Fees	<p>Processing fees are nonrefundable, and all fees are subject to change without notice.</p> <p>A litter application fee always comprises two parts: a processing fee (\$25.00) plus a puppy fee (multiply the number of live puppies by \$2.00).</p> <p>Additional fees are determined by circumstance:</p> <table border="0"> <tr> <td>Expedited Handling (\$35.00)</td> <td>Expedited Handling and Priority Mail service are available in the Continental U.S. only. Allow 3-5 days for delivery.</td> </tr> <tr> <td>Late fee (\$65.00)</td> <td>Required if it has been more than 6 months since the litter was whelped.</td> </tr> <tr> <td>AKC DNA Profiling (\$40.00)</td> <td>AKC DNA kits are available through our Web site or can be ordered by email: dna@akc.org. Prepaid kits are available for \$35.00</td> </tr> </table>	Expedited Handling (\$35.00)	Expedited Handling and Priority Mail service are available in the Continental U.S. only. Allow 3-5 days for delivery.	Late fee (\$65.00)	Required if it has been more than 6 months since the litter was whelped.	AKC DNA Profiling (\$40.00)	AKC DNA kits are available through our Web site or can be ordered by email: dna@akc.org . Prepaid kits are available for \$35.00
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 The American Kennel Club P.O. Box 900052 Raleigh, NC 27675-9052	 The American Kennel Club P.O. Box 900055 Raleigh, NC 27675-9055						
Additional Requirements	<ul style="list-style-type: none"> If there are more than two (2) Dam owners or lessees, contact the AKC for an Additional Signature form. If a Dam was leased at the time of insemination or birth of a litter, you must submit an AKC Lease Notification form. <p>Note: These forms are available on our Web site: www.akc.org</p>						
Authorizations	<p>Signatures of persons other than the owners or lessees will be accepted only if a properly completed authorization form has been filed with the AKC.</p> <p>Note: These forms are available on our Web site: www.akc.org</p>						
Assistance	Email AKC at info@akc.org or call 919-233-9767 to speak to an AKC Customer Service Representative, Monday – Friday, 8:30 AM – 5:00 PM. Information about the registration process and downloadable forms are available on our Web site: www.akc.org .						
Notice	The American Kennel Club reserves the right to correct or cancel for cause the registration of this litter and its descendants. Any misrepresentation on this application is one example of a cause for cancellation and may result in loss of AKC privileges. By supplying your email address, you consent to receive communications from the AKC and approved third parties. Registration is not guaranteed. Processing fees are nonrefundable, and all fees are subject to change without notice. Once submitted, this application becomes the property of the American Kennel Club.						