



## Cooling Kit User Guide



The **Cooling Kit** (P/N 537-761) is designed to be used in the process of pre-cooling semen extended in E-Z Freezin-“MFR5” to 5°C (41°F) prior to freezing.

### Description:

The Cooling Kit contains enough materials to cool approximately four collections. The kit contains four 250ml glass beakers, sixteen polypropylene test tubes measuring 16 x 100 mm, sixteen hollow bottom test tube caps, and a test tube brush. Replacement supplies may be ordered individually from Animal Reproduction Systems.

### Directions for Use:

1. Process semen for freezing and extend with E-Z Freezin-“MFR5” at room temperature.
2. Add approximately 4ml of the extended semen to a 16 x 100 mm test tube.
3. Firmly insert a test tube cap into the test tube.
4. Repeat steps two and three until all of the extended semen has been added to test tubes.
5. Add room temperature water to the 250ml glass beaker. The level of the

water must be equal to or greater than the level of the semen in the test tubes.

6. Carefully place the test tubes into the 250ml glass beaker containing water.

**CAUTION:** Do not allow water to enter the test tubes by making the water level too high in the beaker.

7. Place the beaker in the refrigerator at 5° C (41°F) for two hours.
8. Cool the straws, powder, gloves, racks, tongs, and any other packaging or handling materials to 5°C (41°F) in the refrigerator for two hours.
9. At the end of the two hour cooling period continue processing the semen for freezing.

**NOTE:** For complete information on how to process and package equine semen for freezing, please refer to the following text: *Techniques for Collection, Evaluation, and Insemination of Stallion Semen*, 3rd Edition, published by Animal Reproduction Systems.

### Cleaning:

It is recommended that test tubes and test tube caps be disposed of after use. Items which are not disposed of should be cleaned using the following procedure:

1. Clean the item under cold running water.

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2. Submerge the item in a solution of Nolvasan Solution (P/N NSD-101), which is diluted with water 50:1 (50 parts water to 1 part Nolvasan). Allow the item to soak submerged for twenty four hours.
3. Remove the item from the Nolvasan solution. Scrub the item with the test tube brush in a sink filled with hot water and Alconox Detergent Powder (P/N ALC-101). Scrub the item vigorously and thoroughly to remove any Nolvasan residue.
4. Rinse the item four times in warm tap water. If a full sink is being used to accomplish the rinses, the water must be changed between rinses.
5. Rinse the item four times in cool tap water. If a full sink is being used to accomplish the rinses, the water must be changed between rinses.
6. Allow the item to dry thoroughly in a clean, dust-free cabinet.

## Ordering Information:

Items included in the kit are available separately for replacement. The Nolvasan Solution and Alconox Detergent Powder are also available from Animal Reproduction Systems. Please contact Animal Reproduction Systems to order the parts listed below:

QTY.	DESCRIPTION	PART NO.
1	250ml Glass Beaker	537-676
50	Test Tube (50/pkg)	537-751/50
50	Test Tube Caps (50/pkg)	537-752/50
12	Test Tube Brush (12/pkg)	537-753/12
1	Nolvasan Solution (1 gallon bottle)	NSD-101
1	Alconox Detergent Powder (4 lb carton)	ALC-101

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