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HRi
Hamilton Research, Inc.

Pre-Packaged Kenney Extender

To Make 1 Liter of Kenney Extender (One liter = 1000 ml)

1. Open the foil packet containing the glucose and skim milk powder mixture and add to 1 liter of *sterile water for irrigation*.

2. Replace lid on water and shake thoroughly to dissolve. Water should be at least at room temperature to facilitate dissolution. If necessary, water may be warmed to 37°C.

3. Divide the mixture into 100 ml or 200 ml aliquots by placing in sterile cups.

4. Aliquots not to be used immediately should be frozen. Antibiotics may be added before freezing if desired.

5. Make sure the cups are labeled with the date the extender was mixed and the antibiotic used.

6. Frozen extender should be used within 60 days.

Preparation for Use

1. Extender must be thawed and warmed to 37°C by placing in a water bath set at the correct temperature.

2. If antibiotic was not added prior to freezing, add to extender approximately 2 minutes before use.

Antibiotics

1. **Ticarcillan:** This is available as a veterinary product (Ticillan) in 6 gram vials and as a human product (Ticar) in 1 gram vials. Add 1 mg antibiotic/1 ml extender (100 mg / 100 ml).

2. **Gentamicin:** Use only reagent grade Gentamicin (injectable grade is toxic to sperm). First add 1 ml of injectable 8.4% sodium bicarbonate to 100 ml of extender as a buffer. Mix well and then add 1 ml of reagent grade Gentamicin.

3. **Amikacin Sulfate/Potassium Penicillin G:** For use with entire liter of extender. Use only reagent grade antibiotics from Sigma Chemical Company as some products, such as Amiglyde, are highly spermicidal.

Add 1 gram Amikacin Sulfate and 1,000,000 units of Potassium Penicillin G per liter of extender. When using sterile water for irrigation with a pH of 5.7, add 3.5 ml 8.4% sodium bicarbonate solution per liter as a buffer.

4. Timentin: Add 1 mg antibiotic / 1 ml extender (100 mg / 100 ml).

Notes: Refer to package inserts for handling and shelf life of antibiotics. It is advisable to carefully monitor the condition of the extended semen at 24 hours as the quality of antibiotics may vary.