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## Product Information

### **GONADOTROPIN From Pregnant Mares' Serum**

Product No. **G 4527**

Store at  $-20^{\circ}\text{C}$

#### **Product Description**

Gonadotropin, Pregnant Mares' Serum (PMS-G) is used in conjunction with Human chorionic gonadotropin (hCG, Product No. C 8554) to superovulate female mice.

PMS-G is used to promote egg follicle maturation by mimicking the effects of follicle stimulating hormone (FSH). For optimal egg production, hCG is injected 42 to 48 hours post PMS-G injection and is required for follicle rupture. Many factors will affect the efficiency of superovulation. These include: (1) age and weight of the female; (2) time of administration; (3) strain of mice; and (4) the condition of the stud mouse.

#### **Product Use**

Reconstitute 1 vial of PMS-G with 1 ml of 0.9% Sodium Chloride Solution (Product No. S 8776) to give a final concentration of 50 IU/ml. Intraperitoneally inject 0.1 ml into each animal.

#### **Product Storage**

Store vial at  $-20^{\circ}\text{C}$  until ready to use. After reconstitution store aliquots at  $-20^{\circ}\text{C}$ .

#### **Product Profile**

Gonadotropins are used to superovulate 20 female mice. The mice are then mated with B6D2f1 males and preimplantation stage embryos are retrieved and counted. Successful performance of the gonadotropins is determined when an average of no less than 10 embryos/mouse are retrieved. At least twenty embryos are then selected and cultured in M16 Medium. Successful product performance is further indicated when 80% or more of the embryos progress to the hatched blastocyst stage.

#### **References**

*Manipulating the Mouse Embryo: A Laboratory Manual.* (1986) Hogan, B., Costantini, F. and Lacy, E. (eds). Cold Spring Harbor Laboratory, Cold Spring Harbor, NY.

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