



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

GONADOTROPIN From Pregnant Mares' Serum

Product No. **G 4527**

Store at -20 °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 °C until ready to use. After reconstitution store aliquots at -20 °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.

JWM/DAA 05/02

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.

Purchaser must determine the suitability of the product(s) for their particular use.

Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.