# Product Data Sheet

| | |
|---|---|
| Product Name: | PMSG |
| Cat. No.: | GP21284 |
| Batch No.: | 1 |

## Product Data

| | | | |
|---|---|---|---|
| Purity | >98% | Source | Serum of pregnant mares. |
| Phycical Appearance | solid | Shipping Condition | Shipped at Room temp. |
| Solubility | It is recommended to reconstitute the lyophilized PMSG in sterile 18M-cm H2O at a concentration of 1000 IU/ml, which can then be further diluted to other aqueous solutions. | | |
| Formulation | The PMSG was lyophilized with no additives. | | |

## Introduction

PMSG Hormone is a well know used hormone together withprogestogento increase ovulationjust before toartificial insemination. PMSG hormone is a placental glycoprotein produced from the serum of pregnant mares. PMSG comprises of an alfa subunit and a beta subunit. PMSG hormone is secreted from endometrial cups within the pregnant mare uterus aging from 40 to 130 days into theirmaturation, and once extracted, it can been used to promote artificiallyestrusin femaleanimals. These assemblies produce PMSG hormone to induce mare's ovarian and repsouctive structures. PMSG can induce the growth of follicles by ovaries and results in ovulatation. PMSG hormone has an about a 4 day half-life of bioactivity in species other than horses. The extended biological activity can cause ovarian stimulation and ovulation. However, PMSG use alone often causes cystic ovarian disease because of the unrestrained ovarian stimulation and due to the sugar molecules which decrease clearance of the hormone. PMSG is more likely to be used than other pituitary hormones due to the extended circulatoryhalf-life. PMSG solely exhibits luteinizing hormone like activity, however in other animal classes it has FSH & LH like activity.

## Stability

Lyophilized PMSG although stable at room temperature for 3 weeks, should be stored between 2-8°C .

***Caution: Product has not been fully validated for medical applications. For research use only.***
***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***
***Address: 10292 Central Ave. #205, Montclair, CA, USA***

# Product Data Sheet

## Background

PMSG is a complex glycoprotein obtained from the serum of pregnant mares. This 43-63 kda protein is capable of supplementing and being substituted for the follicle stimulating and interstitial cell-stimulating hormone of the anterior pituitary gland in both the male and female. Thus PMSG-Intervet stimulates development of the ovarian follicle in the female.

***Caution: Product has not been fully validated for medical applications. For research use only.***
***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***
***Address: 10292 Central Ave. #205, Montclair, CA, USA***