P.G. 600- gonadotrophin, chorionic and choriogonadotropin alfa injection, powder, lyophilized, for solution
Merck Sharp & Dohme Corp.

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P.G. 600®
NADA No. 140-856; APPROVED BY FDA
FOR ANIMAL USE ONLY

DESCRIPTION
Gilts normally reach puberty (begin experiencing normal estrous cycles and exhibiting regular estrus or heat) at any time between six and eight months of age, although some gilts will not have exhibited their first estrus at ten months of age. Age at first estrus is influenced by several factors including breed type, season of the year, environmental conditions, and management practice (Hurtgen, 1986).

Sows normally exhibit estrus three to seven days after weaning their litters; however, some otherwise healthy sows may not exhibit estrus for 30 days or more after weaning (Dial and Britt, 1986). The causes of delayed return to estrus in healthy sows are poorly understood, but probably include season of the year (so-called seasonal anestrus; Hurtgen, 1979), adverse environmental conditions, such as high ambient temperatures (Love, 1978), and the number of previous litters, because the condition is more prevalent after the first litter than after later litters (Hurtgen, 1986).

P.G. 600 is a combination of serum gonadotropin (Pregnant Mare Serum Gonadotropin or PMSG) and chorionic gonadotropin (Human Chorionic Gonadotropin or HCG) for use in prepuberal gilts (gilts that have not yet exhibited their first estrus) and in sows at weaning. It is supplied in freeze-dried form with sterile diluent for reconstitution.

In gilts and sows, the action of serum gonadotropin is similar to the action of Follicle-Stimulating Hormone (FSH), which is produced by the animals’ anterior pituitary gland. It stimulates the follicles of the ovaries to produce mature ova (eggs), and it promotes the outward signs of estrus (heat).

The action of chorionic gonadotropin in gilts and sows is similar to the action of Luteinizing Hormone (LH), which is also produced by the animals' anterior pituitary gland. It causes the release of mature ova from the follicles of the ovaries (ovulation), and it promotes the formation of corpora lutea, which are necessary for the maintenance of pregnancy once the animals have become pregnant.

The combination of serum gonadotropin and chorionic gonadotropin in P.G. 600 induces fertile estrus in most prepuberal gilts and weaned sows three to seven days after administration (Schilling and Cerne, 1972; Britt et al., 1986; Bates et al., 1991). The animals may then be mated or, in the case of gilts, mating may be delayed until the second estrus after treatment.

NOTE: P.G. 600 IS INTENDED AS A MANAGEMENT TOOL TO IMPROVE REPRODUCTIVE EFFICIENCY IN SWINE PRODUCTION OPERATIONS. TO OBTAIN MAXIMUM BENEFIT FROM THIS PRODUCT, ESTRUS DETECTION AND OTHER ASPECTS OF REPRODUCTIVE MANAGEMENT MUST BE ADEQUATE. IF YOU ARE IN DOUBT ABOUT THE ADEQUACY OF YOUR BREEDING PROGRAM, CONSULT YOUR VETERINARIAN.

PG. 600 is available in two package sizes:

SINGLE DOSE VIALS (order Code No. PG-720-1) - Five vials containing white freeze-dried powder, plus five vials containing sterile diluent. When reconstituted, each single dose vial (5 mL) of P.G. 600 contains:

SERUMGONADOTROPIN (PMSG) 400 IU
CHORIONICGONADOTROPIN (HCG) 200 IU
(equivalent to 200 USP Units chorionic gonadotropin)

FIVE DOSE VIALS (order Code No. PG-720-5) - One vial containing white freeze-dried powder, and one vial containing sterile diluent. When reconstituted, the five dose vial (25 mL) of P.G. 600 contains:

<table>
<thead>
<tr>
<th>SERUMGONADOTROPIN (PMSG)</th>
<th>2000 IU</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHORIONICGONADOTROPIN (HCG)</td>
<td>1000 IU</td>
</tr>
</tbody>
</table>

(equivalent to 1000 USP Units chorionic gonadotropin)

INDICATIONS FOR USE

PREPUBERAL GILTS

P.G. 600 is indicated for induction of fertile estrus (heat) in healthy prepuberal (non-cycling) gilts over five and one-half months of age and weighing at least 85 kg (187 lb.).

SOWS AT WEANING

P.G. 600 is indicated for induction of estrus in healthy weaned sows experiencing delayed return to estrus.

CAUTIONS

Treatment will not induce estrus in gilts that have already reached puberty (begun to cycle). Gilts that are less than five and one-half months of age or that weigh less than 85 kg (187 lb.) may not be mature enough to continue normal estrus cycles or maintain a normal pregnancy to full term after treatment.

Treatment will not induce estrus in sows that are returning to estrus normally three to seven days after weaning. Delayed return to estrus is most prevalent after the first litter; the effectiveness of P.G. 600 has not been established after later litters. Delayed return to estrus often occurs during periods of adverse environmental conditions, and sows mated under such conditions may farrow smaller than normal litters.

DOSAGE AND ADMINISTRATION

One dose (5 mL) of reconstituted P.G. 600, containing 400 IU serum gonadotropin (PMSG) and 200 IU chorionic gonadotropin (HCG), should be injected into the gilt or sow's neck behind the ear.

Prepuberal gilts should be injected when they are selected for addition to the breeding herd. Sows should be injected at weaning during periods of delayed return to estrus.

DIRECTIONS FOR USE

SINGLE DOSE VIALS

Using a sterile syringe and a sterile 0.90 × 38 mm (20 G × 1 ½") hypodermic needle, transfer the contents of one vial of sterile diluent (5 mL) into one vial of freeze-dried powder. Shake gently to dissolve the powder. Inject the contents of the vial into the gilt or sow's neck behind the ear.

FIVE DOSE VIAL

Using a sterile syringe and a sterile 0.90 × 38 mm (20 G × 1 ½") hypodermic needle, transfer approximately 5 mL of the sterile diluent into the vial of freeze-dried powder. Shake gently to dissolve
the powder. Transfer the dissolved product back into the vial of diluent and shake gently to mix. Inject one dose (5 mL) of the reconstituted solution into the gilt or sow's neck behind the ear.

STORAGE PRECAUTIONS
Store at 36-46°F (2-8°C).
Once reconstituted, P.G. 600 should be used immediately. Unused solution should be disposed of properly and not stored for future use.
Spent hypodermic needles and syringes generated as a result of the use of this product must be disposed of properly in accordance with all applicable Federal, State and local regulations.

REFERENCES

Manufactured for:
Intervet Inc., a subsidiary of Merck & Co. Inc.
Summit, NJ 07901 USA.
by:
INTERVET INTERNATIONAL GmbH
UNTERSCHLEISSHEIM, GERMANY
Rev. 2/13

PRINCIPAL DISPLAY PANEL - Single Dose Vial Label
MERCK
Animal Health
pg 600®
1 dose
400 IU SERUM GONADOTROPIN (PMSG) AND 200 IU CHORIONIC GONADOTROPIN (HCG)
(equivalent to 200 USP Units chorionic gonadotropin)
for injection after reconstitution
See package insert for directions. FOR ANIMAL USE ONLY. STORE AT 36-46°F (2-8°C)

NADA No. 140-856
Approved by FDA
Manufactured for: Intervet Inc., a subsidiary of Merck & Co. Inc., Summit, NJ 07901 USA,
Made in Germany

130338 R1

PRINCIPAL DISPLAY PANEL - 5 Dose Vial Label

P.G. 600®

2000 IU SERUM GONADOTROPIN (PMSG) AND 1000 IU CHORIONIC GONADOTROPIN (HCG) (equivalent to 1000 USP Units chorionic gonadotropin) for injection after reconstitution

5 doses

MERCK
Animal Health
PRINCIPAL DISPLAY PANEL - 25 mL Diluent Vial Label

DILUENT FOR P.G. 600®

STERILE PHOSPHATE BUFFERED WATER FOR INJECTION

25 ml

Manufactured for
Intervet Inc., a subsidiary of Merck & Co. Inc.
Summit, NJ 07901 USA.
Made in Germany

MERCK
Animal Health

Batch No.: Expir. Date:
131590 R1

PRINCIPAL DISPLAY PANEL - 5 Doses with Diluent Carton
FOR INDUCTION OF ESTRUS IN PREPUBERAL GILTS AND WEANED SOWS EXPERIENCING DELAYED RETURN TO ESTRUS

5 doses with diluent
### Active Ingredient/Active Moiety

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<th>Ingredient Name</th>
<th>Basis of Strength</th>
<th>Strength</th>
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<tbody>
<tr>
<td>Gonadotrophin, Chorionic (UNII: 20ED16GHEB) (Gonadotrophin, Chorionic - UNII:20ED16GHEB)</td>
<td>Gonadotrophin, Chorionic</td>
<td>400 [iU] in 5 mL</td>
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<td>Choriogonadotropin Alfa (UNII: 6413W06WR3) (Choriogonadotropin Alfa - UNII:6413W06WR3)</td>
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### Inactive Ingredients

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<td>Mannitol (UNII: 3OWL53L36A)</td>
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<td>Sodium Phosphate, Monobasic (UNII: 3980JIH2SW)</td>
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<td>Sodium Phosphate, Dibasic, Anhydrous (UNII: 22ADO53M6F)</td>
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<td>Water (UNII: 059QF0KO0R)</td>
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### Packaging

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<td>5 in 1 CARTON</td>
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<tr>
<td>1</td>
<td></td>
<td>5 mL in 1 VIAL, SINGLE-DOSE</td>
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<td>1 in 1 CARTON</td>
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<td></td>
<td>25 mL in 1 VIAL, MULTI-DOSE</td>
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### Marketing Information

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### Labeler - Merck Sharp & Dohme Corp. (001317601)

### Establishment

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