

BOSOL

Injection

For Veterinary Use Only

COMPOSITION:

Each ml contains
 Buserelin Acetate.....0.0042mg eq. to
 Buserelin.....0.004mg

INDICATIONS:

Cattle/Buffalo/Sheep/Goat:

- Early cycle induction post-partum.
- Follicular cysts.
- Treatment of anoestrus.
- Improvement of conception rate in artificial insemination procedures.
- Synchronization of oestrus with PGF2a analogue.

Horses:

- Induction of ovulation to synchronize ovulation more closely with mating.
- Improvement of conception rate.
- Treatment of Follicular Cyst.

CHARACTERISTICS:

BOSOL injection containing Buserelin acetate is the synthetic analogue of GnRH hormone. GnRH leaves the hypothalamus via the hypophyseal portal vessels and enter to anterior lobe of hypophysis, where it induces the secretion of Follicle Stimulating Hormone (FSH) and Luteinizing Hormone (LH) into the peripheral blood stream. The release of FSH and LH have physiological role of maturation of follicles, ovulation and luteinizing in the ovary.

PHARMACODYNAMICS:

Buserelin is a synthetic peptide hormone with a function analogous to the natural gonadotropin-releasing hormone (GnRH). It induces the release of the luteinizing hormone (LH) and the follicle-stimulating hormone (FSH) from the anterior pituitary gland in the blood, approximately 1 to 2 hours after injection. The LH peak stimulates the ovulation of ripe follicles in female animals at clearly defined points in time after injection. In cattle, for instance, the majority of the animals is expected to ovulate approximately 24 to 28 hours after the buserelin injection. Administering buserelin in the interval between oestrus and artificial insemination increases the size or duration of the LH peak. This is often associated with improved conception rates. Higher dosages than the recommended clinical dosages do not have an additional stimulating effect on the LH and FSH secretion and do not have an increased positive effect on the conception rates.

PHARMACOKINETICS:

After parenteral administration, buserelin is quickly absorbed and excreted, mainly via urine. The metabolism takes place in the liver, kidneys and pituitary gland. All metabolites are small, inactive peptides.

DOSAGE & ADMINISTRATION:

Cows/Buffalo:

Administer the following dose by intramuscular injection

Indication	Dose
Induction of ovulation with a dominance follicle	2.5ml
Oestrous Synchronization (Day-0 Buserelin, Day-7 PGF2a, Day-9 Buserelin)	2.5ml
Follicular Cyst	5ml

Mares:

Administer the following dose by intramuscular, subcutaneous or intravenous injection..

Indication	Dose
Induction of ovulation in oestrus mares or synchronizing ovulation	5ml twice, with interval of 24 hours
Improvement of conception rate (preferably 8 and 12 days after insemination or natural mating)	5-10ml

Sheep/Goat:

Indication	Dose
Induction of ovulation with a dominance follicle	1ml
Oestrous Synchronization (Day-0 Buserelin, Day-7 PGF2a, Day-9 Buserelin)	1ml
Follicular Cyst	1ml

PRECAUTIONS:

Withdrawal Period: Milk 0 days, Meat 0 days.

Do not freeze.

Observe the aseptic precautions and gloves during administration.

Pregnant women should not administer the product, as buserelin has been shown to be foetotoxic in laboratory animals.

Store between 15-25°C in a cool and dry place.

Keep out of the reach of children.

PACK SIZE:

2.5mlx5

5mlx5

Selmore's Specs



Manufactured by:
 Selmore Pharmaceuticals (Pvt) Ltd.
 36 Km Multan Road, Lahore, Pakistan.



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