

# PRODOT

## Progesterone I.P.- 250 mg Oily Base Injection for Veterinary Use

### Description

Progesterone is a naturally occurring steroid hormone essential for the regulation of the estrous and menstrual cycles in female animals. It plays a vital role in maintaining pregnancy by preparing and sustaining the uterine lining. This injectable formulation contains 250 mg of progesterone in an oily base, allowing for slow, sustained release following intramuscular administration.

Progesterone I.P. injection is used primarily in veterinary reproductive management, including estrus synchronization, treatment of anestrus, and support of early pregnancy in livestock.

### Composition

- Active Ingredient: Progesterone 250 mg per 3 ml ampule (approximately 83.33 mg/ml)
- Vehicle: Oily base (usually sesame oil or similar)
- Quantity sufficient (q.s.) for 3 ml injection volume

### Specification

- Appearance: Clear, viscous oily solution, free from visible particulates
- Assay: 90% – 110% of labelled progesterone content
- Sterility: Must comply with pharmacopeial sterility standards (I.P./USP/BP)
- pH: Not typically specified due to oily base, but must be compatible with injection

### Indications

- Synchronization of estrus in cattle, sheep, goats, and other livestock
- Treatment of anestrus (lack of estrus) or irregular estrous cycles
- Support of early pregnancy maintenance in cases of luteal insufficiency
- Induction of cyclicity for breeding management

## **Dosage and Administration**

- Recommended dose: 250 mg progesterone administered intramuscularly as a single dose per animal or as per veterinary protocol for estrus synchronization programs
- Administration route: Intramuscular injection only
- Follow veterinary guidance for timing and repeated dosing in synchronization protocols

## **Product Form**

Sterile oily injection supplied in 3 ml amber glass ampules, designed to ensure stability and ease of administration.

## **Usage and Advantages**

- Provides sustained release of progesterone via oily base for effective hormonal therapy
- Convenient ampule format for single-use dosing
- Essential tool in reproductive management and herd fertility programs
- Minimizes handling stress through single-dose administration

## **Adverse Effects**

- Mild local reactions such as swelling or irritation at injection site
- Rare allergic or hypersensitivity reactions
- Use cautiously in animals with hormone-sensitive conditions
- Avoid accidental injection in humans, especially pregnant women

## **Withdrawal Period**

- Meat: Minimum 28 days withdrawal period before slaughter
- Milk: Discontinue use in lactating animals producing milk for human consumption
- Follow local regulations and veterinary recommendations

## **Precautions**

- For veterinary use only
- Use aseptic technique during administration
- Avoid exposure to light and excessive heat to maintain potency
- Keep out of reach of children and unauthorized persons
- Not for use in animals intended for human consumption during pregnancy without veterinary supervision

## **Storage**

- Store at 15°C to 30°C (59°F to 86°F) in a dry place away from light
- Do not freeze
- Keep ampules tightly sealed until use

## **Handling and Safety**

- Handle with care to avoid breakage of glass ampules
- Use protective gloves to avoid skin contact
- In case of accidental human exposure, especially in pregnant women, seek medical advice immediately
- Dispose of used ampules and syringes safely according to biohazard guidelines

## **HS Code and HSN Code**

- HS Code: 2937.99 (Other steroid hormones and derivatives)
- HSN Code: 2937 (Hormones, natural or synthetic, and their derivatives)

## **Special Instructions**

- Strictly follow veterinary protocols for reproductive management
- Monitor animals for any adverse reactions post-injection
- Use in combination with other reproductive hormones as advised by veterinarian
- Maintain accurate treatment records including dosage, date, and animal ID

## **Details of Human and Veterinary Applications**

- Progesterone formulations are widely used in veterinary reproduction for estrus control and fertility enhancement
- Human formulations differ significantly in concentration and excipients—this veterinary product is not for human use
- Plays a key role in improving reproductive efficiency in food-producing animals

## **? Frequently Asked Questions (FAQs)**

### **Q1: What is Progesterone I.P.?**

A: Progesterone is a natural hormone used in veterinary medicine to regulate reproduction and support pregnancy.

### **Q2: How is this progesterone administered?**

A: By intramuscular injection, typically as a single 3 ml dose containing 250 mg progesterone.

### **Q3: Can this product be used in all livestock species?**

A: It is commonly used in cattle, sheep, goats, and similar animals; consult a veterinarian for other species.

### **Q4: What are common side effects?**

A: Mild injection site reactions; rare allergic responses.

### **Q5: What withdrawal periods apply?**

A: Meat: 28 days minimum; avoid use in lactating animals producing milk for human consumption.

### **Q6: How should the product be stored?**

A: Store between 15°C and 30°C away from light and do not freeze.