

# Actimec Plus<sup>INJECTION</sup>

For Veterinary Use Only

## COMPOSITION:

Each ml contains:  
Ivermectin ..... 10mg  
Clorsulon ..... 100mg

## INDICATIONS:

**ACTIMEC PLUS INJECTION** is recommended for the treatment and control of internal and external parasites in cattle, sheep, goats and camels. Addition of Clorsulon makes it an ideal preparation to control adult and immature liver flukes.

## GASTROINTESTINAL ROUNDWORMS (ADULTS AND FOURTH-STAGE LARVAE):

Ostertagia ostertagi (including inhibited O. ostertagi), O. lyrata, Haemonchus placei, Trichostrongylus axei, T. colubriformis, Cooperia oncophora, C. punctata, C. pectinata, Bunostomum phlebotomum, Nematodirus helvetianus (adults only), N. spathiger (adults only) and Oesophagostomum radiatum.

**Lungworms (adults and fourth-stage larvae):** Dictyocaulus viviparus.

**Liver Flukes:** Fasciola hepatica (adults only).

**Grubs (parasitic stages):** Hypoderma bovis, H. lineatum, Linognathus vituli, Haematopinus eurysternus, Solenopotes capillatus,

**Mange Mites (cattle scab):** Psoroptes ovis (syn. P. communis var. bovis), Sarcoptes scabiei var. bovis.

## PHARMACODYNAMICS:

Ivermectin is a member of macrolide (Ivermectin) family of compounds. Ivermectin is effective against both arthropod and nematode parasites, with high affinity to glutamate-gated chloride channels of the target parasites. The margin of safety these compounds can be attributed to the fact that mammals do not have glutamate-gated chloride channels and macrocyclic lactones do not readily cross the blood brain barrier.

Clorsulon is a member of the benzene sulphonamide family which acts by competitive inhibition of enzymes involved in the oxidation of glucose of liver flukes and deprive them from metabolic energy.

## PHARMACOKINETICS:

Ivermectin has very short distributive phase following subcutaneous administration with a half-life of 2.8 days. For Clorsulon after subcutaneous administration maximum plasma concentrations are achieved in 6 hours. Clorsulon binds extensively to plasma proteins and carbonic anhydrase in erythrocytes, prolonging the drug in circulation. After subcutaneous administration of recommended dose of Actimec Plus injection the plasma profile demonstrated the slow, steady absorption of Ivermectin with peak plasma levels averaging 26ng/ml and 2.8 µg/ml for Clorsulon were reached at 35 hours for Ivermectin and 9 hours for Clorsulon and had the highest average residues, approximately 2µg/ml. The excretion of Ivermectin majorly takes place through bile, feces and urine in 28-31 days while Clorsulon is mainly excreted through urine in approximately 21 days.

## DOSAGE AND ADMINISTRATION:

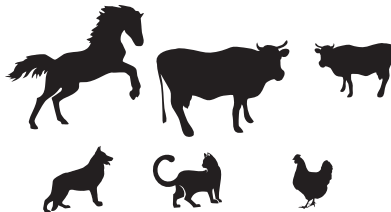
### Cattle & Sheep:

The normal dose is 1ml / 50kg body weight of animal. Only subcutaneous administration is recommended.

### PRECAUTIONS:

1. Keep out of the reach of children.
2. Withdrawal time: Meat 28 days.
3. This product is not to be used intravenously and intramuscularly.
4. Store between 15- 25°C in a cool and dry place.

## USP Specs



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



ISO CERTIFIED COMPANY