

Delta 25 Solution

For Veterinary Use Only

COMPOSITION:

Each ml Contains:

Deltamethrin.....2.5% w/v

INDICATIONS: DELTA 25 Solution is indicated for the control of ecto-parasites like ticks, mites, sucking and biting lice, keds and nuisance flies of livestock, poultry, dogs as well as in premises of farm houses.

CONTRAINDICATIONS:

Do not use on convalescent or sick animals.

Do not use in cases of hypersensitivity to the active substance or any of the excipients.

Do not use in animals with extensive lesions of the skin.

Extra-label use of the product in the non-target species dogs and cats can lead to toxic neurological signs (ataxia, convulsions, tremors), digestive signs (hypersalivation, vomiting) and may be fatal.

ADVERSE REACTIONS:

Some adverse effects have been seen following overdose.

These include paraesthesia and irritation in cattle, as well as intermittent or attempted urination in young lambs. These have been shown to be mild, transient and resolve without treatment.

DOSAGE & ADMINISTRATION:

Livestock: DELTA 25 Solution can be used either as a spray or dip by following dosage:

Mode of Treatment	DELTA 25 Solution per Liter of Water
Dip Wash	1.5ml
Spray	2.0ml
Usual Sanitation	0.5ml

Farm Houses, Poultry Shed & Stables: 2 ml of DELTA 25 Solution mixed with 1 liter of water.

How to make spray:

Make a solution by adding a small quantity of water (for example 1 litre) to the required quantity of D25 Solution stir thoroughly and then fill it up with the required quantity of water to make the final spray solution.

How to make dip wash:

Make a solution of the necessary quantity of DELTA 25. Distribute the solution along with length of the dip, then stir for 10 minutes to obtain a perfect emulsion.

PHARMACOLOGY:

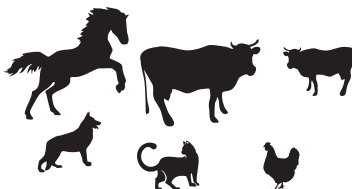
PHARMACODYNAMIC PROPERTIES: Deltamethrin is an alpha- cyano pyrethroid and is a member of the second generation of pyrethroids in which the overall stability of the molecule is improved with correspondingly increased resistance to photo- and bio-degradation and enhanced insecticidal activity.

Synthetic pyrethroids, including deltamethrin, have a similar mode of action as organochlorines. They act on the membrane of nerve cells blocking the closure of the ion gates of the sodium channel during re-polarization. This strongly disrupts the transmission of nervous impulses. At low concentrations, insects suffer from hyperactivity. At high concentrations, they are paralyzed and die.

PHARMACOKINETIC PROPERTIES: After dermal application, deltamethrin is slightly absorbed through skin of cattle and sheep. Pyrethroids are metabolized through oxidative and neurotoxic pathways. The main route of excretion of the absorbed amount in the target animal is the faeces.

PRECAUTIONS: For external use only. DELTA 25 Solution should be prepared just before use. A minimum of 3 to 5 liters of solution is required to fully wet the medium sized cattle. Wear gloves, protective clothing, facemask and goggles to handle the product frequently. Store between 15- 25°C in a cool and dry place. Consult the veterinarian before use. Keep out of the reach of children.

Innovator's Specs.



 **Selmore**
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