

# Nosal Dry<sup>®</sup> Powder

Salmonella Killer

## Composition:

Calcium propionate	60%
Propionic acid	12%
Formic acid	2%
Sorbic acid	1%
Carrier	25%

## Pharmacology:

Nosal Dry is a mixture of organic acid & fatty acids. It decreases intestinal P<sup>H</sup> up to 4-5, in which coliform bacteria like *E coli*, *Salmonella spp.camphylobacter spp* cannot survive. However, this condition is more favorable for the beneficial bacteria in intestine. Organic acids in undissociated state, i.e. non-ionized, more lipophilic, penetrate the semi permeable membrane of the bacterial cell wall and enter the cytoplasm. At the internal P<sup>H</sup> of bacteria (around P<sup>H</sup>7), the organic acids dissociates, releasing hydrogen ions (H<sup>+</sup>) and anions (A<sup>-</sup>). The internal PH of the microbe decreases, which the bacteria are unable to tolerate. A specific H<sup>+</sup>- ATP ase pumps acts to bring the P<sup>H</sup> inside the bacterial level. This phenomenon consumes energy and eventually stops the growth of the bacteria or even kills them.

## Indication:

To prevent Salmonella, Pullorum, Fowl typhoid & Paratyphoid of Poultry and to protect pellet feed & mixture feed from Salmonella.

## Dosage:

50-100 gm/100kg feed continue.

## Contraindication & Precaution:

Nosal Dry is contraindicated in birds hypersensitive to any of its components.

## Side Effect:

Nosal Dry is a mixture of organic acid & their salt, so it does not produce any harmful effect in the body for long time use at recommended dose. It is non-toxic & non-corrosive, so it has no side effect.

## Storage & Stability:

It remains stable up to 2 years when store in a cool & dry place (Below 15°C). Protect from sunlight & moisture. Use as early as possible after opening. Keep away from reach of children.

## Pack Size:

25 kg bag.