

# Hameco-pH<sup>®</sup> Liquid

Organic acids & Fatty acids

## Composition:

Hameco-pH<sup>®</sup> solution contains -

|                 |      |                     |       |
|-----------------|------|---------------------|-------|
| Yeast-extract   | 2%   | Lactic Acid         | 2%    |
| L-ascorbic Acid | 1%   | Propionic Acid      | 7%    |
| Citric Acid     | 2%   | Ammonium Formate    | 24%   |
| Sorbic Acid     | 2.5% | Ammonium Propionate | 7%    |
| Formic Acid     | 15%  | Propylene Glycol    | 5%    |
| Acetic Acid     | 14%  | Water               | 18.5% |

## Pharmacology:

Hameco-pH<sup>®</sup> is a mixture of organic acids & fatty acids. It decreases intestinal P<sup>H</sup> up to 4-5, in which coliform bacteria like *E. coli*, *Salmonella spp.*, *Clostridium sp.*, & *Staphylococcus sp.* can not survive. But this condition is more favourable for the beneficial bacteria in intestine. Hameco-pH<sup>®</sup> increases the secretion of Pancreatic juice (Trypsin, Lipase & Amylase), hence increases the metabolism of Protein, Fat & Carbohydrate. As a result increases FCR. It helps in enzyme production, Digestion & absorption. Due to use of Hameco-pH<sup>®</sup> antibiotic (specially Oxytetracyclin & growth promoter) reaches to highest concentration in blood. (Wyatt and Miller, 1984). Hameco-pH<sup>®</sup> helps in absorption of minerals from the intestine. It maintains the stability of beneficial intestinal bacteria. It is helpful for the development of immunity. Due to its buffering action intestinal P<sup>H</sup> never decreases below 4. Hameco-pH<sup>®</sup> is produced naturally & each Litre contains 3600 K. Cal metabolic energy.

The organic acid (HCOOH) penetrates the cell membrane of bacteria. Inside the cell, the acid dissociates according to internal P<sup>H</sup>: acid <-> anion and H<sup>+</sup> (proton). The H<sup>+</sup> (Proton) decreases P<sup>H</sup> inside the cell. The bacteria use its energy resources trying to eliminate the protons, as a result the bacteria dies. Anions of organic acids deactivate RNA transferase enzyme, which damage nucleic acid multiplication process and eventually result in death of organism.

## Indication:

To maintain balance between helpful & harmful bacteria in intestine of animal & birds; non-specific diarrhea; in stress condition ( which causes - recurrent diarrhoea, mortality, decrease production, increases the virulency of diseases, hampers to develop immunity in the body after vaccination).

## Dosage & Administration:

Per Litre of drinking water-

| Age           | Turkey | Broiler  | Layer    |
|---------------|--------|----------|----------|
| 1 week        | 0.6 ml | 1.0 ml   | 1 ml     |
| 2 week        | 1.0 ml | 1-1.5 ml | 1 ml     |
| 3 week        | 1.5 ml | 1-2 ml   | 1-1.5 ml |
| 4 week        | 1.5 ml | 1-2 ml   | 1-1.5 ml |
| 5 week        | 1.5 ml | 1-2.5 ml | 1-2.0 ml |
| 6 week & more | 2.0 ml | 1-2.5 ml | 1-2.0 ml |

Use 5-7 days for treatment, may be use few weeks if necessary. And for prevention of diseases one time (6-8 hours) daily for 5-7 days.

## Contraindication & Precaution:

It is non-corrosive & user friendly.

## Storage Condition:

Store in a cool & dry place. Use as early as possible after opening the container. Protect from direct sunlight & moisture. Keep away from reach of children.

## How Supplied:

100 ml, 500 ml & 1 Litre.