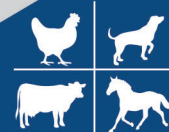


SAL-O-MAK

Double Strength



SAL-O-MAK



Sal-O-Mak is an perfect blend of buffered organic acid mixture, specialized for poultry and aqua, enhanced with essential oils and coated Butyric acid. This addition makes the product effective in the finished feed as well as whole intestinal tract. This contributes to the bird's stable feed digestion while allowing important digestive enzymes to be activated faster, helps in promoting bird's production and growth.

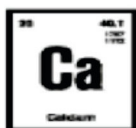
Choosing the right Blend: Inappropriate blend of organic acids for minimum product cost, leads to improper release of acids and poor gut health in birds. With Ideal composition of organic acids and Advanced blending technology Sal-O-Mak provides a perfect reduction of PH in both feed and gut.

Composition:

Salts of Citric acid, Propionic acid, Coated Butyric acid, Formic acid, Acetic acid, Fumaric acid and benzoic acid.
Double Strength.
Essential Oils.

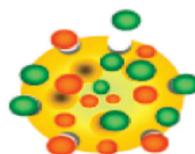
Next generation acidifiers

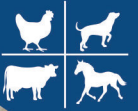
Combination of 3 (or more)
organic acids



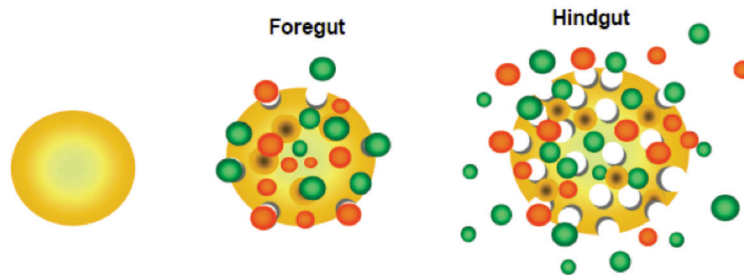
Calcium, Pottassium and Sodium salts of
Organic Acids have Lower PKa Value

Micro-encapsulation
with essential oils



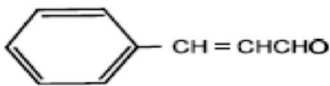


Release of micro-encapsulated organic acids and essential oils

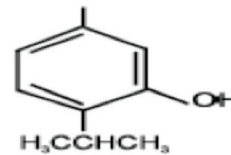


Fat capsule digestion through Lipase

Essential oils are secondary plant metabolites. EOs enhance production of digestive secretions, stimulate blood circulation, exert antioxidant properties, reduce levels of pathogenic bacteria by increase permeability of the cell wall of pathogenic bacteria and may enhance immune status.



Antimicrobial
Antiinflammatory
Antispasmodic
Antiurease
Cancer-preventive
Flavor
Hypoglycemic
Cinnamaldehyde



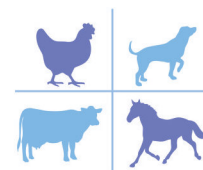
Antimicrobial
Antiinflammatory
Antimelanomic
Antioxidant
Antiseptic
Caminative
Flavor
Thymol

Chemical properties of selected acids and salts

Organic acid	Salts	pk value	Solubility	Molecular weight (g/mol)	Gross energy (MJ/kg)
Formic acid	Calcium formate, Potassium formate, Sodium formate	3.75	very good	48.0	5.8
Acetic acid	Sodium acetate	4.76	very good	60.1	14.8
Propionic acid	Calcium propionate	4.88	very good	74.1	20.8
Lactic acid	Calcium lactate	3.90	good	90.1	15.1
Fumaric acid	Magnesium fumarate	3.04/4.44	low	116.1	11.5
Citric acid	Calcium citrate, Zinc citrate, Sodium citrate	3.14/4.76/6.40	good	210.1	10.3



SAL-O-MAK



How do Sal-O-Mak works?

The antibacterial activity of Sal-O-Mak is related to the reduction of pH, as well as their ability to penetrate pathogenic cell wall. In the dissociated form organic acids are lipid soluble in which they are able to enter microbial cell. Once an acid enters into the cell wall, it releases the proton in a more alkaline environment, reducing the intracellular pH. This influences microbial metabolism, leading to an intracellular accumulation of acid anions. The acid anion seems to be very important for the antibacterial effect.

Where do organic acids work?

The antibacterial effect of dietary organic acids in chickens is mainly taken place in the upper part of the digestive tract (crop and gizzard). Whereas Sal-O-Mak's Organic acid blend with Coated Butyric acid along with Essential Oils, acts also well in small and large intestine of the Gastrointestinal tract.

Effect on mold growth

Virtually all animal feeds contain moulds and their spores. The favourable conditions for mould include moisture level more than 12% and warm temp., presence of Oxygen and prolonged storage time. Mostly moulds are toxigenic and produce mycotoxins. Organic acids such as acetic acid, propionic acid, or blends of acids are also used as mould inhibitors. The relative efficacy of Sal-O-Mak's synergistic blend of acids and higher concentration makes it superior to other commercial acidifiers.

Effect in growth

Stimulation and activation of digestive enzymes by lowering of gut pH and induces the release of digestive enzymes. Thereby producing a pathway for digestion and absorption of nutrients which leads to appreciable improvement in production parameters like FCR and Body weight.

Application :

- Feed Preservation as mould inhibitor.
- Gut PH Reduction as gut acidifier.
- Better villi development and aids in absorption of nutrients.
- Pathogenic bacterial control.

Dose:

Broiler/Layers : 500 gm/Ton of feed.
Breeders : 1kg/Ton of feed.

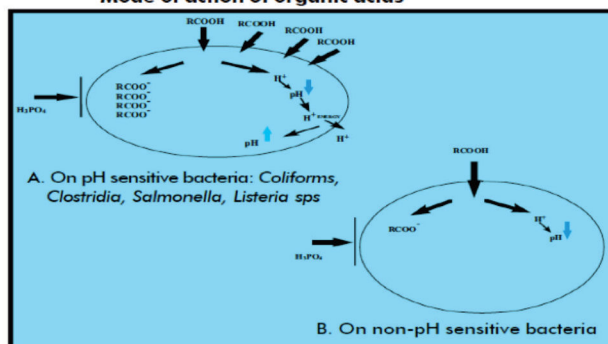
Presentation:

25kg bag.

Shelflife:

24 Months from Date of Manufacture

Mode of action of organic acids



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