

# NUTRIAID™-49

Most Suitable Designed Acidifier To Aid Digestive Health Improvement

A detailed microscopic illustration of the intestinal mucosal lining. The image shows a cross-section of the gut wall with various layers of cells, including the brush border (microvilli) on the surface. A prominent callout bubble is positioned over the middle section of the lining, containing the text '49% total acid content'. The overall color palette is dominated by warm tones of red, orange, and pink, with some blue and purple highlights in the background.

49% total  
acid  
content

Energy source for enterocytes

Nourishes the rapidly developing GIT

Maintains the integrity of epithelial barrier

Broad spectrum bactericidal in action

# NUTRIAID™-49

Most Suitable Designed Acidifier To Aid Digestive Health Improvement

## AN INSTANT ENERGY SOURCE FOR ENTEROCYTES & NOURISHES THE RAPIDLY DEVELOPING GIT

Immediately in post hatch period (6-10 days), digestive system specially small intestine and caeca increase up to 5 times more rapidly than other visceral organs. The villi, crypts and enterocytes develop more rapidly reaching a growth plateau in 48 hours. Short chain fatty acids (SCFA) provide an instant energy source for enterocytes.

Short chain fatty acids can be used to generate ATP through citric acid cycle. For example 1M of fumeric acid generates 18M ATP.

## MAINTAINS THE INTEGRITY OF THE INTESTINAL EPITHELIAL BARRIER

One major component of the intestinal barrier is the formation of tight junctions between epithelial cells. Intestinal barrier is loosened due to inflammation caused by pathogenic bacteria. While tight junction between epithelial cells are loosened, condition called "Leaky gut" develops due to which nutrients from blood come to intestine. Moreover any inflammatory reaction is energy dependent leading to loss of energy otherwise which is meant for physiological functions. NUTRIAID-49 keeps check on pathogenic microbes both gram positive as well as gram negative resulting into reduced inflammatory reaction and maintains intestinal barrier intact.

### Composition:

- Formic acid
- Acetic acid
- Orthophosphoric acid
- Propionic acid
- Benzoic acid
- Citric acid

### Benefits:

- An Instant energy source for enterocytes.
- Nourishes the rapidly developing GIT.
- Maintains the integrity of the intestinal epithelial barrier
- Broad spectrum bactericidal in action, controls Necrotic Enteritis

### Target Species:

Breeder, Layer, Broiler and Swine

### Usage Recommendation:

Should be mixed uniformly throughout feed

**Poultry:** 1 kg/MT pf feed or as per recommendation of nutritionist or consultant

NUTRIAID

[www.nutriaid.co](http://www.nutriaid.co)