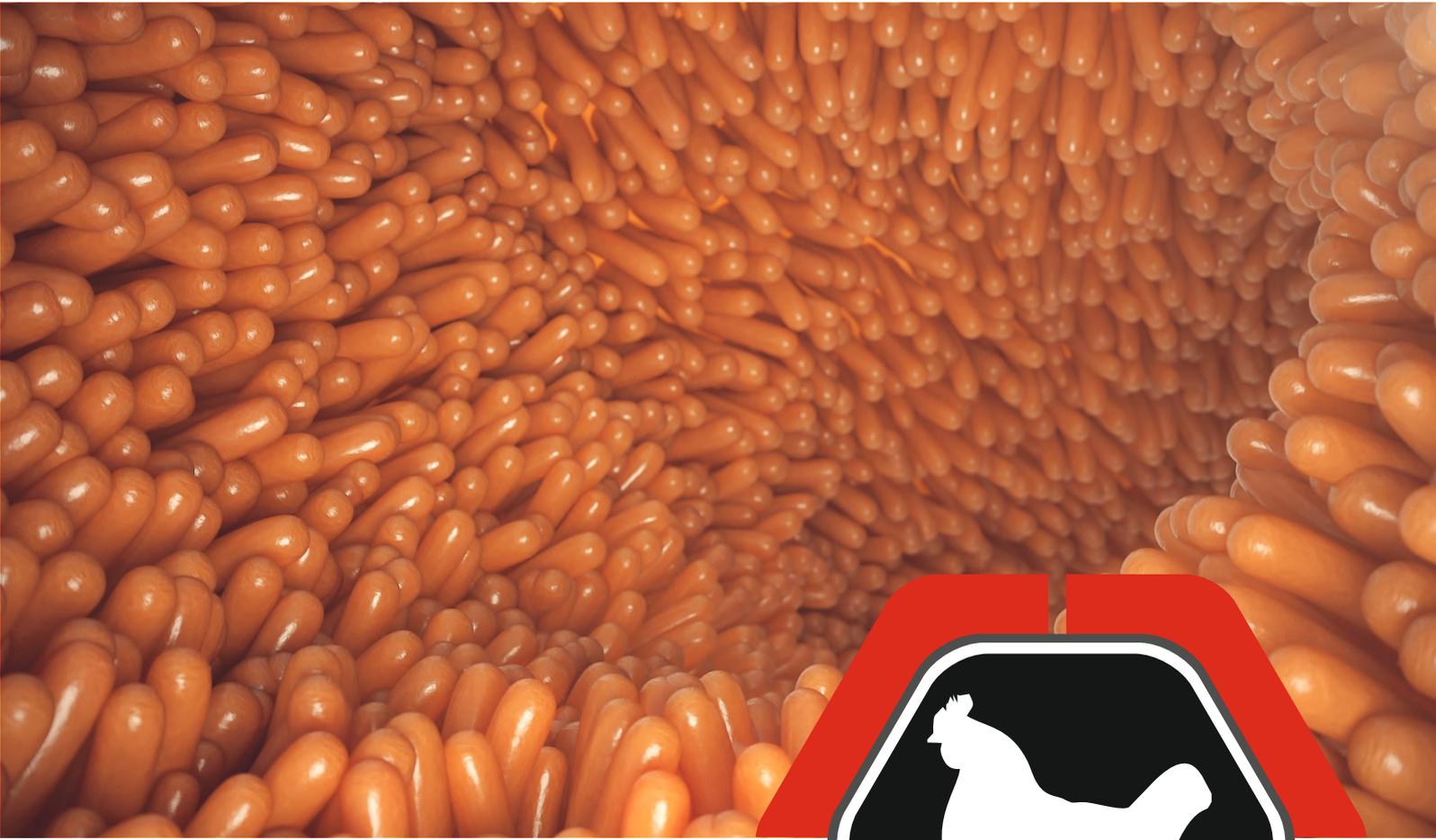


To Get Entire Gut Protection

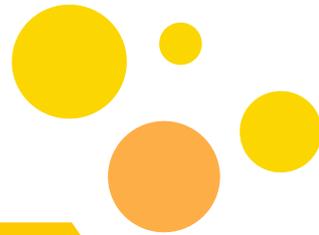


Need
to Think
DIFFERENTLY





time in INDIA



Feed & Gut Acidifier with Difference

Valecid^{SR}

With Power of Forgotten Acid and Specific Release Technology

Power of Forgotten Acid/Valeric Acid :

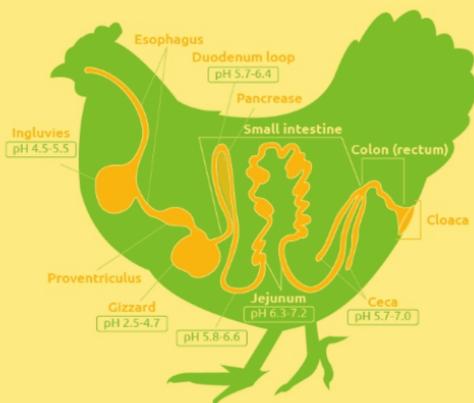
Valeric Acid is straight chain saturated fatty acid with five carbon atoms. It is naturally produced in the gut by Oscillibacter in the cecum. It is commonly referred as forgotten acid. As like Butyric acid it has same challenges but thanks to esterification technology we have overcome these challenges by producing Valeric Acid Glycerides (VGA).

Valeric Acid is very much effective in **Necrotic Enteritis**.

The virulence factor in the Clostridium perfringens infection (Necrotic enteritis) is Net B toxin (Hemolytic activity). This Net B toxin causes the lesions of the gut wall associated with NE. Valeric acid offers protection against the damaging effects of the Net B toxins on the gut surface cells (Epithelium), these cells are responsible for absorption of nutrients from Feed. Besides this Valeric acid improves the no of L cells in the crypts which are responsible for production & differentiation of cells on the surface that forms villi.

Interesting & Important Facts:

Gram negative bacteria are only sensitive to acids with less than eight carbon atoms (SCFA), whereas gram positive bacteria are sensitive to longer chain acids (Partanen, 2001)



Why Organic Acids:

- Emergence of Antibiotic resistance development & restricted use of AGP's
- Fundamental contributors to feed hygiene by inhibiting moulds
- Cost effective and performance enhancing option
- Reduces pathogen intake by birds
- Eubiosis – Stabilization of Gut Flora
- Stimulation of pepsin/ proteolytic activity & improves protein digestion
- Improves Nutrient retention rate & thus improves FCR
- Antimicrobial in nature
- In Young chicks due to immature intestine, acid secretion is insufficient
- Improves villi length, intestinal integrity & strengthens the intestinal defense system



Feed & Gut Acidifier with Difference

Valecid^{SR}

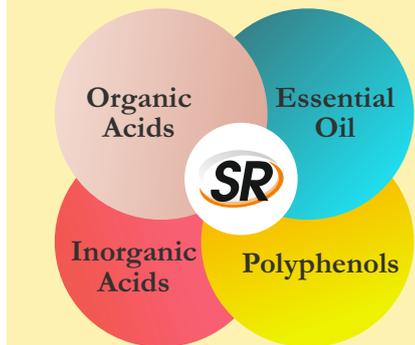
With Power of Forgotten Acid and Specific Release Technology



COMPOSITION

Combination of Organic Acids, Inorganic Acids, Essential Oils and Phytochemicals protects entire gut (crop to ceca) from variety of pathogens

- Formic acid
- **Valeric acid***
- Essential oil
- Acetic acid
- Citric acid
- Polyphenols
- Propionic acid
- Lauric acid
- Curcumin
- **Butyric acid***
- Phosphoric acid
- Menthol



*Esterified

Strengthen Intestinal Defense

About Valecid^{SR}

Organic Acid	pKa	Effective Against	Purpose
Formic Acid	3.75	Bacteria & Yeast	Antibacterial, Reduce cecal pH, Anti-salmonella
Acetic Acid	4.75	Bacteria	Antibacterial
Propionic Acid	4.87	Moulds	Antifungal, Reduce abdominal fat in males, improves dressing% in females
Butyric Acid	4.82	Bacteria	Antibacterial, Stimulates Enterocytes & villi to Crypt ratio, Improves Beneficial Microflora
Valeric Acid	4.82	Bacteria	Anti-clostridial toxin Net B, Improve L cells - Crypt and villi length
Citric Acid	3.14/5.95/6.39	Bacteria	Antibacterial
Phosphoric Acid	2.0/7.0/12.0	Fungi	Antifungal
Lauric Acid	5.3	Bacteria, Yeast & Fungi	Effective against Campylobacter & Gram '+ve & Food safety
Curcumin / Polyphenols	Polyphenol	Natural antibiotic	Immodulatory, Antimicrobial, Antiinflammatory, Antioxidant, Reduce morbidity & mortality
Menthol		Antioxidant	Soothing agent, Antioxidant & antimicrobial

Superior Solution for Necrotic Enteritis

INDICATION

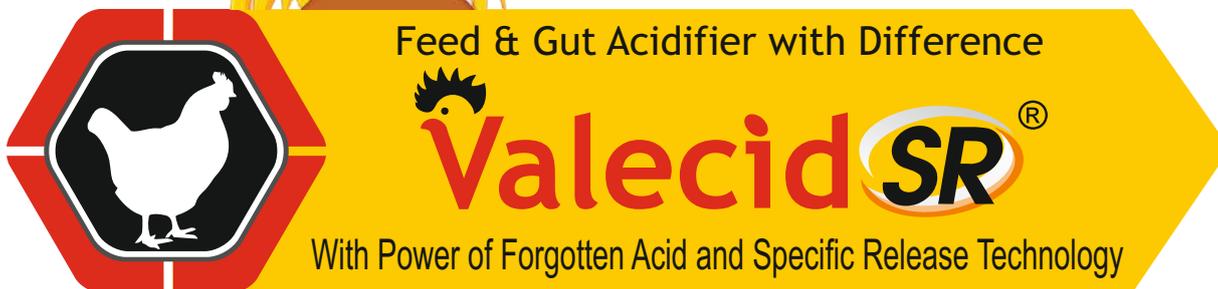
- To control necrotic enteritis and other economically important bacterial infections
- To improves intestinal defense and maintaining gut integrity
- To maintains feed hygiene and to reduce pathogen intake through feed
- To acidify gut for better nutrient digestion
- To promote growth of probiotics especially lactobacilli
- To reduces enterocytes villi inflammations

UASGE

- Broiler Prestarter and Layer Chick : 1 kg/ ton of feed
Broiler starter, Finisher and Layer : 500 gm/ ton of feed
Breeder : 500 gm to 1 kg/ ton of feed
- Challenging situations :
1 kg/ ton of feed for 10 day
- Only Acidifier : 2 kg/ ton of feed



Packaging – 25 kg Drum



Manufactured & Marketed by :

nutridian[®]
ANIMAL HEALTH
Leading Innovation Through Technology
ISO 9001:2015 certified company
and cGMP certified company

NUTRIDIAN ANIMAL HEALTH
A unit of Kanad Chemicals Pvt. Ltd.

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