VinAcid

Herbal-Based Acidifier

For All Type of Poultry

Oral Solution

- **Formulated with a herbal base**
- **Enhanced safety and stability**
- **Contains essential nutrients**

Organic acids alone are highly volatile and corrosive, posing safety risks to users and causing damage to farm equipment, which results in increased operational costs. Additionally, the strong odor of these acids not only discomforts farm workers but can also reduce feed intake in animals. Furthermore, the use of salts or coated organic acids in acidifiers often leads to reduced efficacy.

Therefore, the use of herbal compounds to lower pH and provide acidifying effects is a safer alternative that can reduce production costs. These herbal-based formulations offer greater acidity stability and lower volatility. Moreover, plants contain additional nutrient compounds that, alongside their antimicrobial properties, can contribute to improved growth performance and productivity in animals.

Mode of action:

VinAcid® acidifier is an effective alternative to antibiotic growth promoters, enhancing animal growth, performance, and productivity by improving nutrient absorption and preventing gastrointestinal infections. **VinAcid®** promotes digestion and nutrient uptake through increased secretion of digestive enzymes and proteolysis, elongation and widening of intestinal villi, reduced competition between host cells and microbes for nutrients, and decreased production of microbial toxic metabolites that inhibit animal growth (such as ammonia, amines, etc.). These effects collectively contribute to improved production outcomes.

Additionally, **VinAcid®** supports disease prevention by modulating gut microbial flora and strengthening the immune system. Its use also improves litter quality and helps prevent biofilm formation in drinking water systems. Moreover, **VinAcid®** exhibits antioxidant activity, effectively mitigating the adverse effects of various stressors, particularly heat stress.

Nutrient absorption Enhancement

- pH reduction
- Increase intestinal transit time
- Stimulation of digestive enzyme synthesis
- Improve intestinal morphology (increased villi height & width)

Gut Microbiome Enhancement:

- Intestinal acidification suppresses pathogens (E. coli, Salmonella, Clostridium spp.)
- Selective promotion of beneficial bacteria (Bacillus, Lactobacillus, Bifidobacterium spp.)
- Supports establishment of a balanced microbiota, especially in chicks

Production Enhancement:

- Improves nutrient and energy absorption
- Enhances weight gain, feed intake, and feed conversion ratio (FCR)
- Improves meat quality (color, pH, water-holding capacity)
- Increases egg production and quality
- Improves eggshell thickness via enhanced bioavailability of phosphorus and calcium through pH reduction
- Reduces contamination of meat and eggs with pathogenic bacteria (Salmonella, Campylobacter)

Metabolic Optimization

- Reduced growth-inhibiting toxic metabolites
- Enhanced digestive enzyme secretion
- Improved liver function and thyroid hormone (T3, T4) regulation
- Better lipid profile

Immune Enhancement:

- Strengthens innate and adaptive immunity
- Boosts cellular and humoral responses
- Increases immune organ mass and antibody secretion
- Elevates immunoglobulin levels (IgA, IgM, IgG) and leukocyte count
- Enhances serum protein/albumin levels
- Balances pro- and anti-inflammatory cytokine production

Antioxidant

- Regulates intracellular thiols and increases reduced thiol levels
- Strengthens the body’s antioxidant defense barrier
- Mitigates the effects of heat stress

Makian Dam Pars

VinAcid®

Litter and Manure Improvement

- Reduces ammonia and urea excretion
- Lowers litter pH, inhibiting the growth of pathogens (E. coli, Salmonella, Clostridium perfringens, etc.)
- Lowers litter pH, preventing ammonium production

Antimicrobial Activity

- Reduces microbial count in drinking water
- Prevents biofilm formation in drinkers

Nutritional Components

- Herbal base rich in zinc, copper, iron, phosphorus, potassium, magnesium, and calcium
- Herbal base containing protein and energy

Analysis

Formic acid	170 g/kg
Acetic acid	100 g/kg
Citric acid	17 g/kg
Zinc	35 mg/kg
Copper	8 mg/kg
Iron	150 mg/kg
Phosphorous	550 mg/kg
Potassium	25-55 g/kg
Magnesium	802 mg/kg
Calcium	9 g/kg
Energy	2600 kcal/kg
Protein	130 g/kg

Amino acids

Aspartic acid	0.35 %
Glutamic acid+ Glutamine	6.44 %
Serine	0.62 %
Arginine	0.38 %
Histidine	0.21 %
Alanine	2.22 %
Tyrosine	0.18 %
Methionine	0.10 %
Lysine	0.62 %
Leucine	0.43 %
Iso Leucine	0.39 %
Glycine	1.22 %
Threonine	0.23 %
Phenyl alanine	0.12 %

Makian Dam Pars

VinAcid®

Dosage and Administration:

1 liter per 1000 liters of drinking water

Contraindications:

None

Drug Interactions:

No known interactions.

Side Effects:

Completely natural formulation.

No side effects or risk of resistance development.

Withdrawal Period:

None

Storage Conditions:

Store in a dry place, below 25°C and away from direct sunlight.

Packaging:

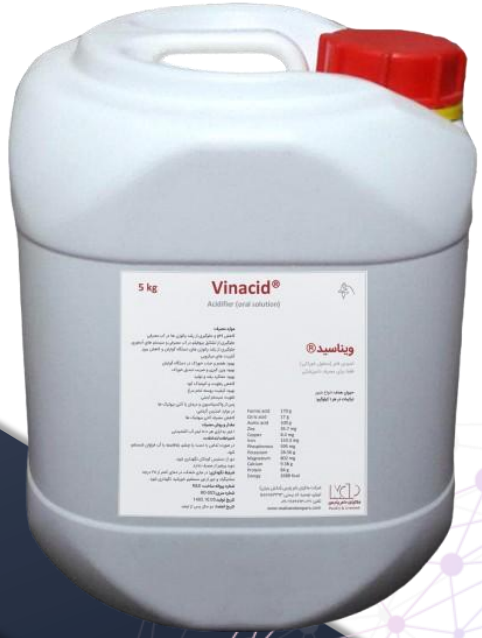
5 L containers

Shelf Life:

2 years from production date.

Benefits of usage:

- Lowers water pH and inhibits pathogen growth
- Prevents biofilm formation in drinking water and watering systems
- Suppresses gut pathogens, reducing microbial enteritis
- Enhances feed digestion and nutrient absorption
- Improves weight gain and feed conversion ratio
- Boosts growth and production performance
- Reduces litter moisture and ammonia levels
- Enhances meat and egg production and quality
- Improves eggshell quality
- Strengthens immune system, especially after vaccination and antibiotic treatment
- Supports birds under heat stress
- Reduces antibiotic usage



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