



CERQUAL DR



The best way for a quick and safe Acidification

Special blend of organic and mineral acids in liquid form

"Organic acids are widely distributed in nature as they occur in animal, plant and microbial sources. They contain one or more carboxylic acid groups, which may be covalently linked in groups such as amides, esters and peptides."

"In addition to inhibitory effects due to low pH, organic acids have a direct bactericidal action. While in the undissociated form, these acids can diffuse through the cellular membrane of bacteria where, due to cytosolic pH being maintained near 7, dissociation of the acid occurs inside the bacterial cell causing pH reduction and inhibition of metabolic pathways. These disruptions ultimately lead to bacterial cell death. (Russell and Diez-Gonzales, 1998, Van Immerseel et al. 2006)"

"Some organic acids, can be directly metabolized by the enterocytes lining the gastrointestinal tract and may enhance growth and development of the gut, leading to enhanced nutrient digestion and utilization and, ultimately, optimized performance (Miller and Slade, 2006)."

CERQUAL DR features:

High variety of Organic Acids + Mineral Acid:

- ❖ Fosforic Acid: effective in pH reduction, increasing digestibility of feed, counteract
- ❖ Propionic Acid: source of energy, fungicide and bactericide activity
- ❖ Formic Acid: strong antibacterial activity and high capacity to reduce pH
- ❖ Acetic Acid: good effect against enterobacteria and source of energy
- ❖ Lactic Acid: digested in small quantities can reach all intestinal tracts

ADDITIVES PER KG:

Acid	Quantity	Formula	pKa
Acetic Acid (e260)	60,000 mg	CH ₃ COOH	4.76
Formic Acid (e236)	200,000 mg	HCOOH	3.75
Orthophosphoric acid (1a338)	20,000 mg	O=P(OH) ₃	12,60
Lactic acid (e270)	80,000 mg	CH ₃ CH(OH)COOH	3.83
Propionic acid (e280)	480,000 mg	CH ₃ CH ₂ COOH	4.88

APPLICATION IN BROILER:**Program 1 (500ml/1000L DW)**

1. From 6th to 40th

Program 2

1. From prestarter-starter for 3 days (500ml/1000L DW)
2. From starter- 1st period for 3 days (700ml/1000L DW)
3. From 1st to 2nd period for 3 days (700ml/1000L DW)

Program 3

1. From 18th to 22th (700ml/1000L DW)
2. From 32th to 36th (800ml/1000L DW)
3. From 44th to 48th (500ml/1000L DW)

Program 4

1. From 6th to 10th (400ml/1000L DW)
2. From 16th to 21th (600ml/1000L DW)
3. From 26th to 31th (700ml/1000L DW)

APPLICATION IN LAYERS:**Program 1**

3 days per week at 500ml/1000L DW

Program 2

7 days per month at 700ml/1000L DW

Program Dysbiosis

3 days at 800ml/MT + 6-8 days at 1000ml/1000L DW. After 15 days administer for 10 days at 600ml/1000L DW

INSTRUCTION FOR USE:

30-100 ml/ 100 L DW.

PACKING:

1 L bottle, 25 L drum.

STORAGE:

Expiration date refers to the product well stored away from heat source.



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