



# ACIDAL ML



**Synergistic Balance Mixture of Selected Acids Ensures a Stable pH, Organic Acidifier as Water pH Regulator & Growth Promoter Solution to Promote Growth by Better Bacterial Control**

## INTRODUCTION

ACIDAL ML is balanced combination of organic acids. The product is buffered with ammonia in order to build in "safety" as well to create the right pH independent of the different water qualities without affecting the water intake. ACIDAL ML is brown liquid having characteristic acidic smell. Its blend of multi acids giving advantage over single acid use to achieve most disperse drinking water pH and avoid water line problems.

Organic Acid	pKa	ml/1000 l to pH 4	Result in practice
Formic acid	3.75	300 – 400	Low amount active ingredients per liter DW
Lactic acid	3.86	1000 – 1200	Slime-blocked nipples
Acetic acid 80%	4.76	2600 – 2800	Slime/bad taste; reduced water intake
Propionic acid	4.88	3000 – 3300	Slime/bad taste; reduced water intake

## INDICATION

ACIDAL ML is used to compensate the physiological hydrochloric acid deficiency in the stomach of young chicks and to control the intestinal bacteria during periods of stress like feed transitions/ post weaning, when the feed intake is poor. It prevent the harmful bacteria contamination in drinking water by regulating pH.

## COMPOSITION

ACIDAL ML is mixture of formic, acetic, propionic, lactic, fumaric acids buffered with ammonia and plant extracts  
All product ingredients comply with EC-regulations and are Biodegradable. Product is registered in EU.

## MODE OF ACTION

ACIDAL ML will initially kill the bacteria in the drinking water and helps in lowering the pH in the stomach/ crop/ gizzard. ACIDAL ML has the specific ability to penetrate bacteria through cell wall & kill pathogenic bacteria by interfering with its metabolism.  
ACIDAL ML helps to control enteric pathogens.

## ADVANTAGES

- Regulates water pH.
- Prevents formation of slime and biofilm in water lines
- Prevents the growth of pathogenic micro-organisms esp E. Coli.
- Boost up the performance after vaccinating broilers (immuno stimulatory action)
- Stimulates the development of Lactobacilli & ensure well balanced beneficial flora in GIT
- Improves enzymatic digestion of proteins
- Improves the growth, feed conversion ratio & production factor (by 4.22%)
- Improves feed intake during heat stress, vaccination, diseases and first week of day old chicks.
- Reduces mortality.

## Performance of broilers with and without ACIDAL ML (1L / 1000L)

Parameter	Control	Acidal ml	Difference
Initial Drinking water pH	8.09	8.12	
Numbers of broilers,	12,415(9.853 / m2)	10,346 (9.847 / m2)	
Weight at 7 days (g)	140	140	+0.00%
Final Weight at 55 days of age (g)	3.155	3,250	+3.01 %
Feed consumption ( gm/bird)	6.374	6,490	+ 1.82%
FCR	2.114	2.087	-1.27 %
Production factor (EPEF Index)	264.18	275.35	+4.22%

## DOSAGE

Adjust dose to bring drinking water pH at 4. Normally its 1-2 ml/lit

**Contact Time:**  
1.5 hours will improve results.

## PACKING

25 kg can (22 Liter)