

## InduceAcid Liquid (IAL)

For the water quality

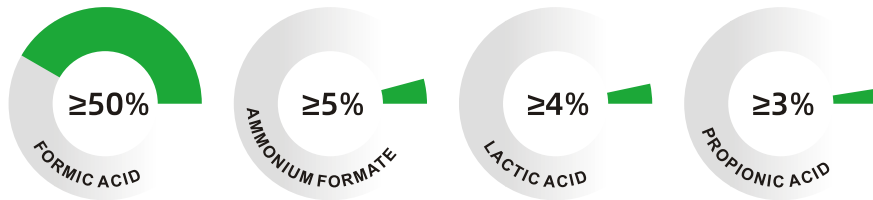
The sanitation of drinking water pipelines in livestock and poultry could directly affect the water quality, and lead to biofilm risk and negative impact on production performance.

Formic acid is one of the strongest organic acids with the highest molecular density and has been shown effective against a number of pathogens. In shrimp aquaculture, formic acid could be used to control vibriosis.

InduceAcid Liquid (IAL), a specialty compound Acidifier in liquid form developed by CP BIO, contains high content of formic acid and other organic acids. IAL could help to reduce the "biofilm risk" and improve digestibility in chickens and aquaculture.



### Scientific Formula

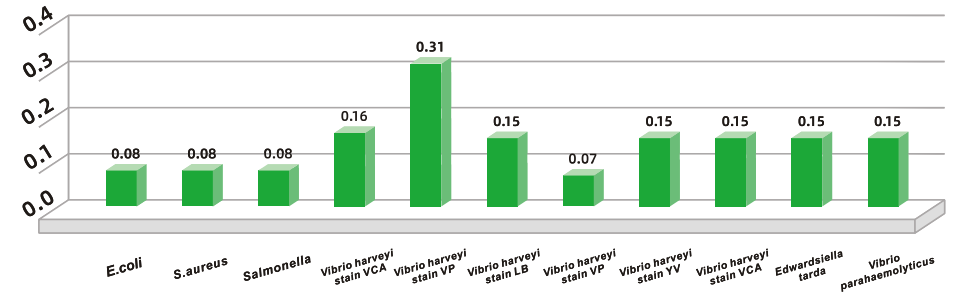


### IAL: Functions

- 1 • Eliminate the biofilm inside the drinking water system
- 2 • Improve the quality of drinking water (less bacteria mass)
- 3 • Reduce diarrhea
- 4 • Promote digestion and growth performance
- 5 • Control the pathogenic bacteria (*E.coli*, *Salmonella spp.*, *S. aureus*, *Vibrio spp.*)

### IAL : MIC against pathogenic bacteria

Minimum Inhibitory Content (%)



### IAL: Trial Data • pH reduction in GIT

| Items                         | IAL           | Control group |
|-------------------------------|---------------|---------------|
| pH of drinking water          | 3.81 ± 0.31 ↓ | 7.17 ± 0.03   |
| pH in crop(30min)             | 5.01 ± 0.09 ↓ | 5.29 ± 0.22   |
| pH in muscular stomach(70min) | 4.14 ± 0.21 ↓ | 4.49 ± 0.30   |

### • Clean the water pipeline

| Weight of impurities in 500g water sample |                         |                          |                        | Direction for use       |
|---|-------------------------|--------------------------|------------------------|-------------------------|
| Before soaking 0.05g                      |                         | After soaking 1.06g      |                        |                         |
| Inhibit the pathogen in drinking water    |                         |                          |                        |                         |
|   | Before cleaning (Inlet) | Before cleaning (Outlet) | After cleaning (Inlet) | After cleaning (Outlet) |
| <i>S. aureus</i>                          | 100                     | 500                      | 0                      | 0                       |

• For poultry, 1-1.5L of the product per 1000L drinking water.  
 • For Aquaculture, 50-100mL/ 1000L (50-100 ppm) in the pond.



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