

LWWT-1[®]

LIVESTOCK
WATER
TREATMENT

Treatment of residual water from livestock and poultry.

WHAT IS IT?

LWT-1® is a selection of 15 species of natural microorganisms belonging to 11 genera (*Acinetobacter*, *Citrobacter*, *Pseudomonas*, *Pseudoxanthomonas*, *Bacillus*, *Bordetella*, *Brevibacillus*, *Staphylococcus*, *Alcaligenes*, *Enterobacter*, *Nitrareductor*) and It was designed for the biological control of sludge and odors caused by the wastes of pigs, cows, chickens and in general by the operation of the farms. **LWT-1®** is a combination of natural microorganisms that will not harm humans, livestock or surrounding ecosystems.

Producers of pork, cattle and poultry, as well as dairy farmers, face greater pressure from regulatory agencies and surrounding communities to eliminate offensive odors and treat wastes from animals. The air emissions of these operations can decrease the values of the surrounding land and kill the vegetation that leads to demands. Overflows of sedimentation and collection ponds can contaminate the surrounding land and surface waters. High ammonia levels can harm adult livestock as well as newborns and cause unhealthy working conditions for employees on the premises. The organic accumulation causes a blockage in the channels that connect the inner cages to the outer ponds. **LWT-1®** was designed to solve these problems.



USE AND APPLICATIONS

- Decrease of COD, BOD and total solids
- Treatment of livestock and poultry wastes
- Cleaning of waste in pens
- Cleaning of settling channels and ponds, as well as waste collection
- Fish and shrimp production ponds

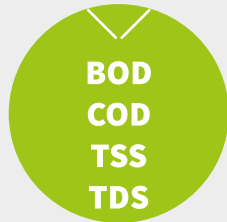


HOW DOES IT WORK?

LWT-1® microorganisms metabolize the nitrogen compounds, sulphides, ammonia present in residues and organic waste and use them as a source of carbon and energy through various metabolic processes such as nutrient absorption, absorption of metal ions and the production of biochemical (enzymes, surfactants, etc.) that help the degradation and solubilization of pollutant compounds.

These processes help in the elimination of associated odors and in the biological control of sludge, facilitating the cleaning of wastes and avoiding blocking or overflow of waste in channels and collecting ponds.

WHAT ARE THE BENEFITS?



- Decrease:
- Biological Oxygen Demand
 - Chemical Oxygen Demand
 - Total Suspended Solids
 - Total Dissolved Solids



HOW IS IT APPLIED?

LWT-1™ can be applied to waste wells, ponds or waste collection channels and in feeders under animal pens manually or automatically using dosing pumps to reduce sludge accumulation. Prevents channel blocking and reduces the amount of water used to unload debris into collection ponds.

LWT-1® can be applied to ponds used to raise fish and shrimp. It will reduce the levels of ammonia and nitrite in the water, as well as the accumulation of organic sludge resulting from overfeeding and fish and shrimp waste.

The regular applications of **LWT-1®** during the growth cycle will allow the lagoon to withstand larger populations of fish and shrimp.

The quantities vary depending on the size and configuration of the installation. Contact LIVENTIA for specific application information.

SUCCESS STORIES

PROYECT:	Wastewater Treatment.
OBJECTIVE:	To reduce the content of nitrogen compounds, sulphides and phosphorous to comply with the sanitary regulations of the government and that the water could be released from the lagoon.
RESULTS:	Odor control, elimination of solids, decrease in concentration of carbon sources.



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