

Poultry Success Case



www.bio-organic.com



BIO-ORGANIC CATALYST
THE POWER IN NATURE™

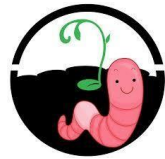
Controlled environment sheds



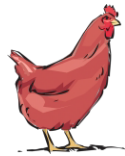
General description

In a floor-based controlled environment layer poultry farm, it was found in the following situation:

Controlled Environment and Bed Management:



- The poultry houses on this farm are designed with a controlled floor environment, the manure (chicken) comes out of these houses.



- The manure accumulates in the litter of the houses, where the hens defecate during the whole period of their stay in the house (which is approximately one and a half years).



- This management approach had implications for both bird health and air quality inside the houses.

• Odour Problems and Economic Consequences:



- Odour problems in the sheds were notorious, the birds were irritable and unstable, suggesting that the environment was not optimal.
- These odours not only affected the welfare of the birds, but also had economic consequences for the company due to increased bird mortality.

Technologies

Breeding and rearing sheds

Curtained and heated
Generates a heavy atmosphere with the generation of odour precursor gases.

Biotechnologies

Biocatalyst: Ecocatalyst
Biostimulant: Humic Acid
Method of Application

Spray once a week with back pump on the bed

Benefits

Ammonia reduction
Animal welfare
Mortality reduction

Controlled environment laying sheds

Accumulation of poultry manure on grids where birds cannot enter.

Biotechnologies

Biocatalyst: Ecocatalyst
Biostimulant: Humic Acid

Method of Application

Spraying once a week with back pump on poultry manure and grids.

Benefits NH₃

Reduction
Animal Welfare
Fly Reduction

Composting

Reduction of composting Benefits

Ammonia reduction
Acceleration of decomposition of organic matter



BIO-ORGANIC CATALYST
THE POWER IN NATURE®

Dosage

TQI	# Aves	Área de galpón m2	Densidad	Ecocatalys		Bioenergizer		# Dosis (mes)	Total, mes por galpón (L)	
				Dosis (L)	[]	Dosis (L)	[]		Ecocatalys	Bioenergizer
Galpón 3	15300	1260	12,1	0,5	7	0,06	3	5	2,3	0,3
Galpón 5	15300	1260	12,1	0,5	7	0,06	3	5	2,3	0,3
Galpón 8	13600	1140	11,9	0,42	7	0,06	3	5	2,1	0,3
TOTAL MES GRANJA									7	1

Results



← Before and After →



Results



←Before and After→



Odour precursor gas reduction analysis in sheds



It increases the availability of the components to micro-organisms as a carbon, improving oxygen transfer and dissolved oxygen levels in the medium, which improves the system's ability to reduce organic loads.



Effective reduction of ammonia levels in the shed, which is reflected in a healthier environment and the elimination of offensive odours.



It has contributed to the acceleration of composting of organic matter and the improvement of compost quality.



The ecosystems are balanced, which increases the bio-oxidation capacity and reduces the accumulation of offensive odours in the poultry manure.



Treatment has improved air quality and reduced stressful situations, indicating its effectiveness in improving animal welfare. its effectiveness in improving animal welfare.

