



# SOP

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-Poultry Sector-

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# Evaluation of the efficacy of a bio-hygienization additive in ammonia level control in broiler houses

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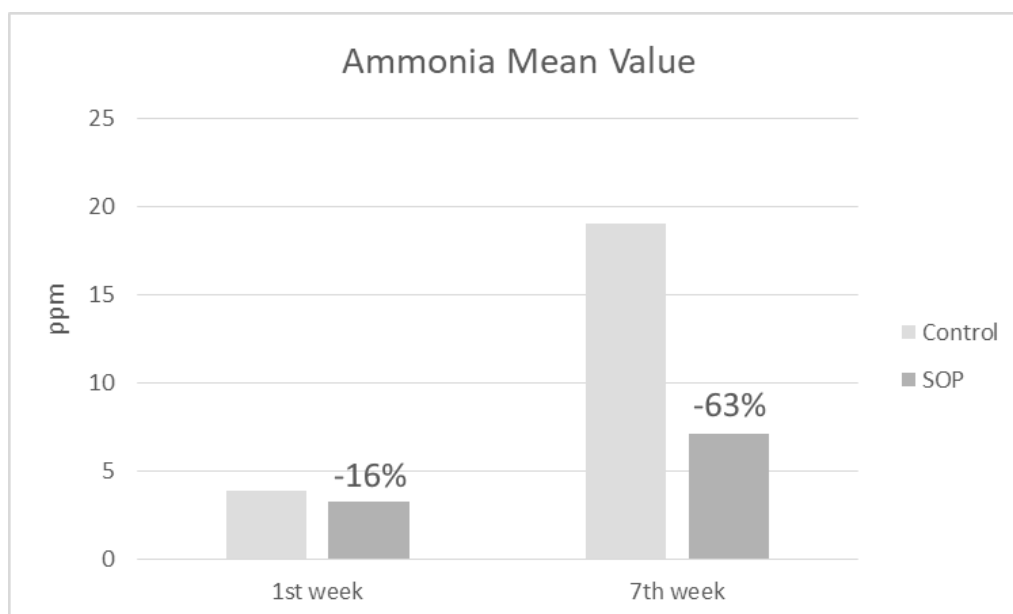
## Objectives

This field study investigates the efficacy of a new bio-hygienization bedding additive (SOP) in ammonia control in broiler houses.

## Materials & Methods

Formula	SOP SQA 233
Materials & Methods	This study was carried out from 2003-2006 on an Italian commercial poultry farm. Two large broiler houses, Control (C) and Treated (T), were selected for their similarity in size, density, ventilation system, drinking and eating equipment. The buildings had a conventional layout and housed about 8,200-8,600 1 day old broiler chicks each cycle, up to 7-8 weeks. Ammonia concentrations were assessed in each house using Draeger PAC-III (PA-USA) in the 1st and 7th weeks, at six different points.
Evaluated parameters	Ammonia
Statistical significance	P=0.09 in the 1st week, P=0.002 (7th week)

## Results & Graphs



## Conclusions

SOP helps decrease the ammonia concentrations in the barn, the effect increasing as treatment continues.

# Evaluation of the efficacy of a litter additive in the control of the ammonia level in broiler houses: preliminary results\*

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\*Translation of the original text: "Prova di efficacia di un additivo di nuova concezione per lettiere nel controllo dell'ammoniaca negli allevamenti intensivi di polli da carne: risultati preliminari"

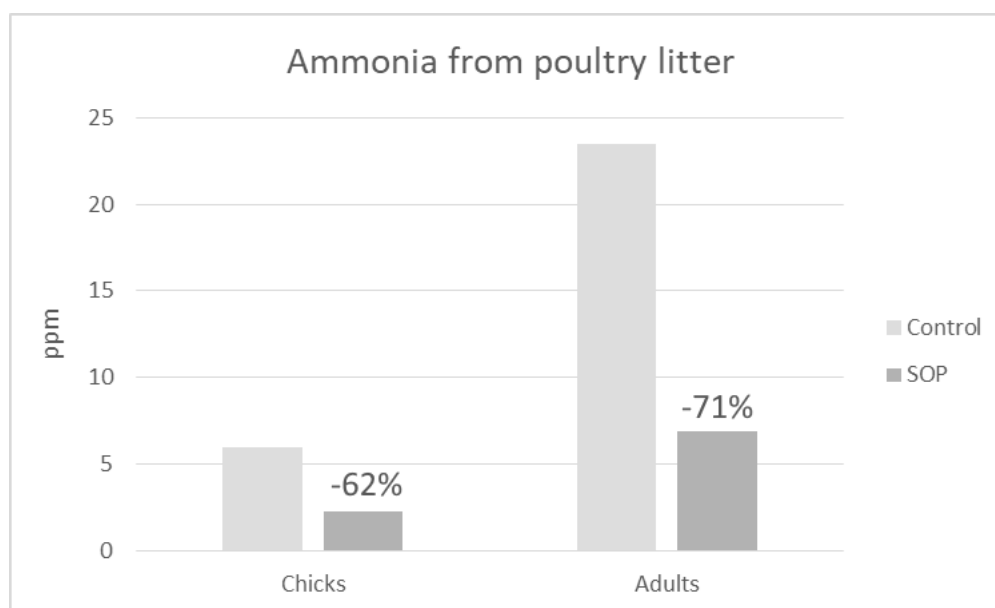
## Objectives

This field study was carried out to evaluate the efficacy of an additive (SOP) used in poultry litter as an agent in the control of the ammonia concentrations in the farm environment.

## Materials & Methods

Formula	SOP SQA 233 + SQE 034
Materials & Methods	The trial regarded two sheds, C2 (with treated litter) and C1 (with untreated litter, as a Control). The tunnel sheds with Vasistas windows, have forced ventilation systems and "Pad Cooling" systems.
Evaluated parameters	Ammonia: values on the ground (ppm) and values at 1m above ground (ppm)
Statistical significance	P= 0.000003735

## Results & Graphs



## Conclusions

SOP, combined with a rational ventilation system, can keep the level of ammonia low. Such an additive can, therefore, be considered among the Best techniques available, according to EC Directive 96/61.