

# ALQUERNAT YUCCA

## Effective ammonia control on the farm



- Reduced on-farm ammonia by:
  - 85% in pig farm.
  - 63% average in poultry farms.
- Improved production figures
- Reduced respiration problems
- Improved worker comfort
- Powder pre-mix/Liquid application

### How Alquernat Yucca works

#### Alquernat YUCCA contains 3 active ingredients:

##### Saponins

- Surfactant effect (improves absorption in the gut).
- Inhibit urease enzymes that produce ammonia.
- Neutralise ammonia through direct union.
- Stimulates microorganisms that produce organic acids (neutralise  $\text{NH}_3$ )

##### Phenolic compounds

- Binds ammonia and converts it to less toxic compounds.

##### Isopropyl methylphenol

- bactericidal/fungicidal activities, eliminates ammonia producing bacteria complements saponins.

### ADMINISTRATION

#### Alquernat YUCCA Powder premix:

- Swine 0.125 – 0.5kg/tonne.
- Poultry 0.1 – 0.5kg/tonne.

#### Alquernat L (liquid):

- Swine 125 – 500ml/tonne feed, or 1000L Drinking Water.
- Poultry 100- 500ml/tonne feed, or 1000L Drinking Water.

## TRIAL RESULTS

### A. Laying hens

840,000 birds, given 125g/t powder premix continuously Feb – Mar.  
Measurement of NH<sub>3</sub> Digital Sensor Toxi RAE Pro.

Ammonia measurement in 3 composting sections

Dates	20 Feb.	26 March	20 Feb.	26 March	20 Feb.	26 March
Location	Front Section		Middle Section		Rear Section	
PIT 10	99	18	99	11	81	6
PIT 5	53	23	55	22	49	20
PIT 1	95	36	58	46	39	21

63% reduction of ammonia in relative terms across the farm.

### B. Laying hens

Experimental farm, existing condition 100ppm ammonia, 2-month trial, 0.5kg/t

	Non-treated feed	Feed supplemented with Alquernat Yucca
Ammonia levels	100 ppm	25 ppm
Feed consumption	112 g/day and animal	127g/day and animal
Eggs produced	24.2 dozens	28.3 dozens
Feed conversion/dozen	1900	1700
Feed conversion/egg	158.33	141.67
Sexual maturity	18 weeks	15.2 weeks

75% reduction in ammonia!

### C. Broiler chicks

Experimental farm 400 chicks (2 batches), ammonia 80ppm, day 0 – 36, 0.5kg/t.

	Non-treated feed	Feed supplemented with Alquernat Yucca
Ammonia levels	80 ppm	25 ppm
Weight (kg)	1.91kg	2.36kg
Feed conversion rate	1.85	1.69
Mortality due to ascites (%)	3.6%	2.1%

Results = **450 tons** increase meat & **378 tons** decrease feed / 1,000,000 broilers  
68.8% reduction in ammonia

## D. Fattening pigs

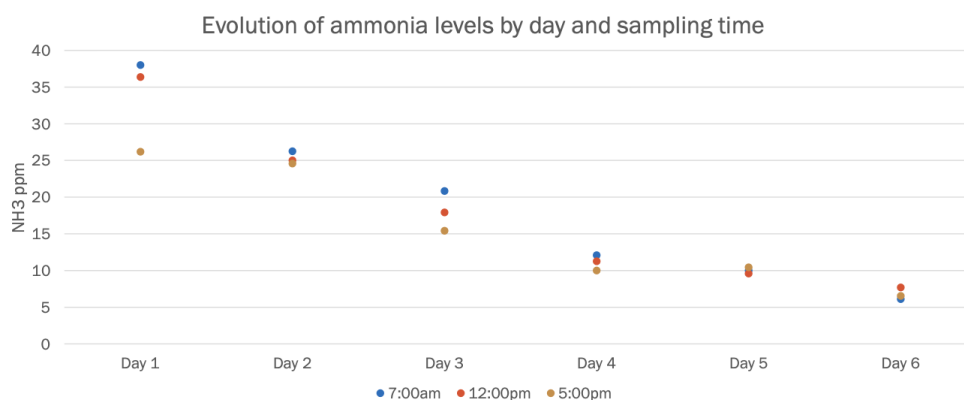
Experimental farm, 100ppm NH<sub>3</sub>, 50 days, 0.5l Yucca L/t.

	Non-treated feed	Feed supplemented with Alquernat Yucca
Ammonia levels	100 ppm	25 ppm
Average daily weight gain (g) between 20-45kg	575 g/day and animal	750 g/day and animal
Feed conversion	3.54	2.90

75% reduction NH<sub>3</sub>, **increased FCR**, **decreased DWG**

## E. Finisher pigs

Commercial farm, 396 pigs, 6 days treatment Yucca L at 0.125ml/l DW  
NH<sub>3</sub> measurement 3x per day with Hydrion Ammonia Test Kit



85% reduction NH<sub>3</sub>

Available pack sizes:

Alquernat YUCCA Premix  
25kg

Alquernat YUCCA L  
1 litre  
5 litre  
25 litre (by request)

