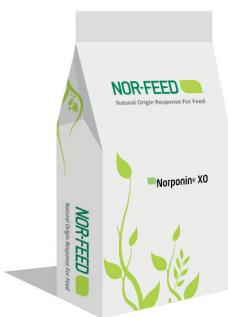




Poultry



## Contributes to the coccidial risk management

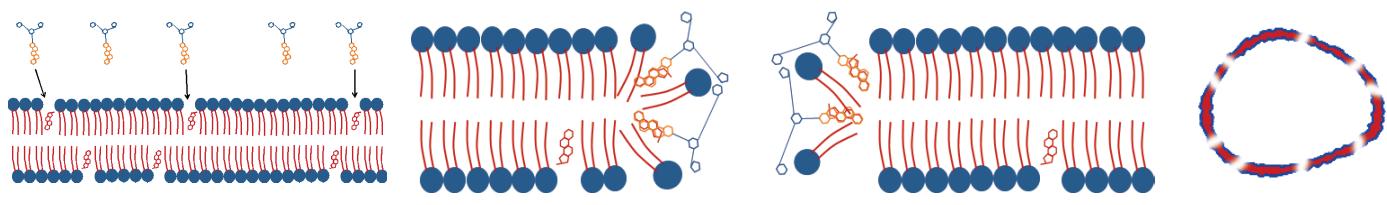
**Norponin® XO** is a natural product based on plants and plant extracts rich in saponins (including protodioscin and *schidigera* saponin B1).

**Norponin® XO contributes to the management of the coccidial risk.**

### Product Highlights

- Highly active & efficient compounds
- No withdrawal time: can be used in finisher diet
- High Safety index
- No interference with immunity
- Can be used during the whole raising period, in shuttle and rotation programs
- Can be used in organic farming

### Mode of action



1. Saponins bind with sterol compounds of the cell membrane

2. Polarity Interactions between saponins and cell membrane create pores

3. Membrane rupture causes the coccidia lysis

### Instruction for use

1 day-old chick

250 ppm during the whole life span

Slaughter



Powder (25 kg bag)	<b>Norponin XO:</b> 500 g/ton of complete feed <b>Norponin XO<sub>2</sub>:</b> 250 g /ton of complete feed
Premix (25 kg bag)	2 kg/ton of complete feed
Liquid (1, 5, 20L drums)	1 L/1000L of drinking water (3-5 mL/lamb/day, 15 mL/ bull calf/day)

## Material & Methods

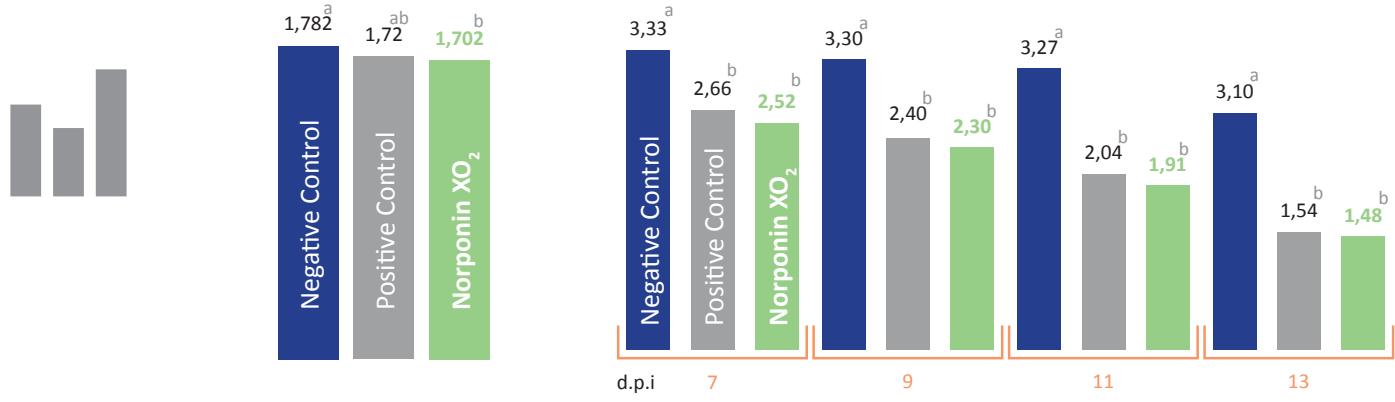


Trial on broiler chickens | 42 days | Commercial farm in Peru | 3 groups of 25 broilers

- ▶ **Negative control** group: standard diet without coccidiostat
- ▶ **Positive control** group: standard diet + coccidiostats:  
days 1-22: clopidol 25%, 500 g/T  
days 23-42: salinomycin 12%, 600 g/T
- ▶ **Norponin XO<sub>2</sub>** group: Norponin® XO<sub>2</sub> at 250 g / T of feed, all life long
- ▶ **Challenge per os at D14** by ingestion of Coccivac – D™ (15 x normal dose)

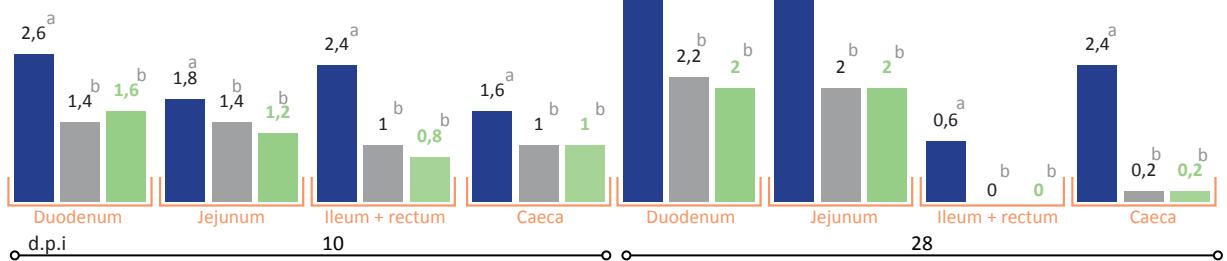
## Results

A better Feed Conversion Ratio      A significant reduction of *Eimeria* sp. in faeces Log (oocysts / g)



█ Negative Control  
█ Positive Control  
█ Norponin XO<sub>2</sub>

Better Lesion Scores



## Conclusion



- ▶ Norponin XO<sub>2</sub> protects the birds against coccidiosis even in front of severe challenge
- ▶ Even in case of severe infestation, Norponin XO<sub>2</sub> is as cost effective as a current shuttle program (chemical + ionophores)
- ▶ R.O.I: Negative control: 3.22 | Positive control: 7.74 | **Norponin XO<sub>2</sub>: 7.79**

Others trials available upon request