

## Availa® Zn Improves Intestinal Morphology and Oxidative Stress in Young Broilers



### Study Objective

Compare the effects of Availa® Zn vs ZnSO<sub>4</sub> on performance and intestinal health of broilers under a nutritional challenge.



### Animals

680 one-day-old male Ross 308 broilers

### Treatments

A wheat-rye basal diet without the addition of non-starch polysaccharide (NSP) enzymes was fed in order to create a nutritional challenge at the intestinal level. Dietary treatments were supplemented with 60 ppm Zn as either:

- Zn sulfate (ZnSO<sub>4</sub>)
- Availa-Zn



### Study Duration

36 days



### Location

Ghent University, Ghent, Belgium

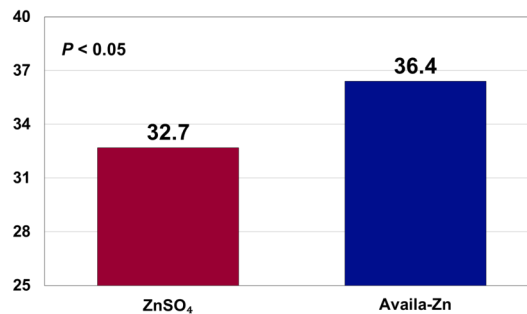


## Results Summary

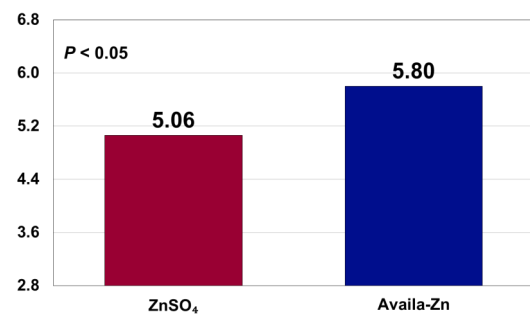
Feeding Availa-Zn had the following effects:

- Increased apparent Zn digestibility
- Influenced intestinal morphology
- Promoted a change in bacteria profile in the ileum
- Mitigated effects of intestinal inflammation and oxidative stress due to nutritional challenge

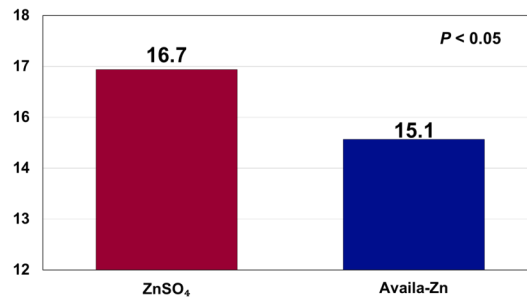
**Availa-Zn Increased Apparent Zn Digestibility, %**



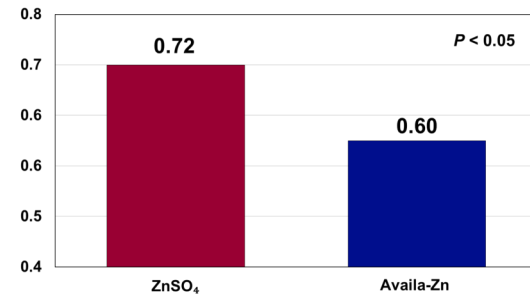
**Availa-Zn Increased Duodenal Villus Length:Crypt Depth**



**Availa-Zn Lowered Plasma MDA Concentration, mmol/L**



**Availa-Zn Lowered Plasma GPx Activity, μmol/min.mL Plasma**



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