

## Availa®ZMC Improves Bone Mineralization of Hatching Chicks



### Study Objective

Determine the effect of feeding Availa®ZMC to broiler breeders on embryo quality and bone development.



### Animals

- 600 Cobb 500 broiler breeder hens and 60 Cobb 500 broiler breeder males, 22 wk of age
- 1,920 Cobb 500 embryos

### Treatments

A corn-soybean meal basal diet was supplemented with:

Treatment	Sulfates, ppm			Availa-ZMC, ppm		
	Zn	Mn	Cu	Zn	Mn	Cu
Sulfates	100	100	10	-	-	-
Availa-ZMC Iso	60	60	3	40	40	7
Availa-ZMC On Top	100	100	10	40	40	7



### Study Duration

46 weeks



### Location

Universidade Federal do Rio Grande do Sul, Eldorado do Sul, Rio Grande do Sul, Brazil

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IS-P-005  
PBB 79-90

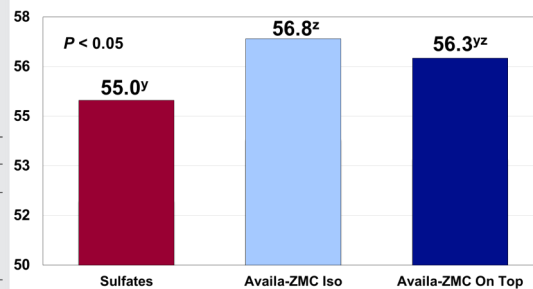


### Results Summary

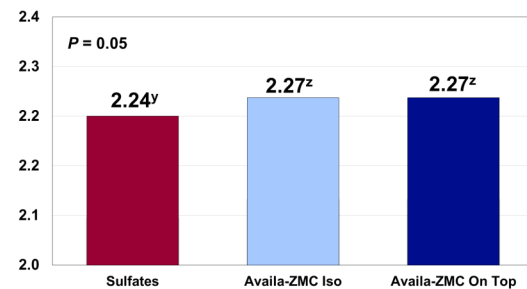
Feeding Availa-ZMC to broiler breeders had the following effects on their eggs and embryos:

- Increased egg Zn content
- Increased tibia and femur width and calcification
- Improved tibia breaking strength

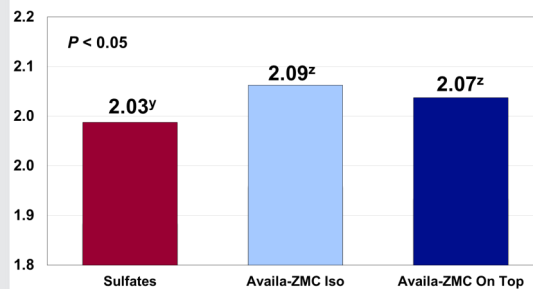
Availa-ZMC Increased Egg Zn Content, mg/kg



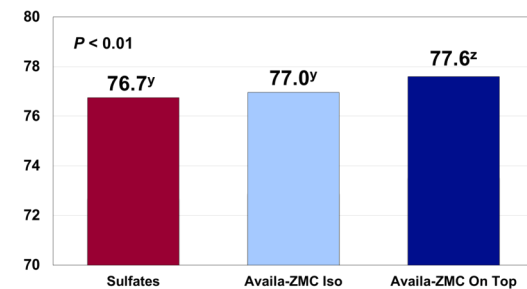
Availa-ZMC Increased Chick Tibia Width, at Hatch, mm



Availa-ZMC Increased Chick Tibia Width, at 18 DOI, mm



Availa-ZMC Improved Tibia Calcification, at 18 DOI, %



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Favero, A., S. L. Vieira, C. R. Angel, A. Bos-Mikich, N. Lothhammer, D. Taschetto, R. F. A. Cruz, and T. L. Ward. 2013. Development of bone in chick embryos from Cobb 500 breeder hens fed diets supplemented with zinc, manganese, and copper from inorganic and amino acid-complexed sources. Poultry Sci. 92(2):402-411.