



Feeding Availa® 4 during late-gestation optimizes beef calf productivity

ZINPRO®



Study Objective

Evaluate effects of supplementing Availa 4 to beef cows during late gestation on offspring performance and health from birth to harvest.



Study Duration

End of second trimester until calving (~94 d)



Animals

84 multiparous, nonlactating, pregnant Angus x Hereford cows

Treatments

Control: No supplemental Zn, Mn, Cu, and Co

Sulfates: 360 mg Zn, 200 mg Mn, 125 mg Cu, and 12.5 mg Co

Availa 4: 360 mg Zn, 200 mg Mn, and 125 mg Cu from amino acid complexes, and 12.5 mg Co from cobalt



Location

Oregon State University
Burns, OR, USA

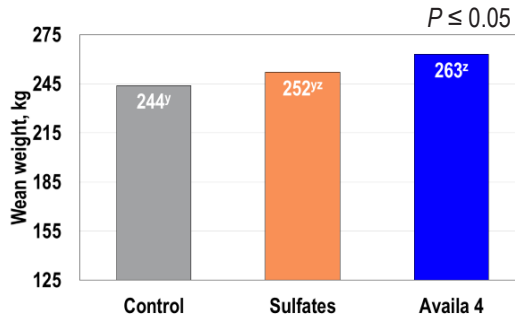


Results Summary

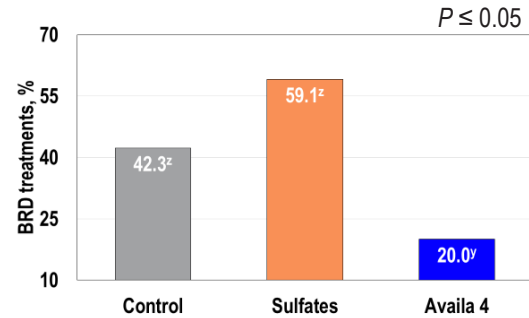
Availa 4 supplemented to beef cows during the last trimester of pregnancy improved offspring performance:

- Heavier weights at weaning
- Healthier during transition in growing period
- Higher carcass weights

Improved 205 d calf adjusted wean weight



Decreased calf BRD treatments



Availa 4 supplementation to beef cows has positive ROI

Item	Unit	Sulfates	Availa 4
205 d adjusted wean weight	kg	252	263
Calf cost	\$/kg	\$2.75	\$2.75
Upgrade from Sulfates to Availa 4	\$/cow/d	-	\$0.04
Feeding duration	d	100	100
ROI			7.56



Marques, R. S., R. F. Cook, M. C. Rodrigues, B. I. Cappellozza, R. R. Mills, C. K. Larson, P. Moriel, and D. W. Bohnert. 2016. Effects of organic or inorganic cobalt, copper, manganese, and zinc supplementation to late-gestating beef cows on productive and physiological response of the offspring. J. Anim. Sci. 94:1215-1266.

