RELATIVE BIOAVAILABILITY OF BASIC ZINC SULFATE AND BASIC ZINC CHLORIDE FOR CHICKS

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SUMMARY
An experiment was conducted to compare the estimated relative bioavailability of two new potential sources of zinc (Zn), basic Zn sulfate and basic Zn chloride with that of feed-grade Zn oxide, using reagent-grade Zn sulfate heptahydrate as the standard in chicks fed for 21 days. Based on bone Zn accumulation regressed on added dietary Zn concentration and assuming a value of 100% for reagent-grade Zn sulfate, relative bioavailability values were 101, 107, and 49% for basic Zn sulfate, basic Zn chloride, and Zn oxide, respectively.

Key words: Bioavailability, chicks, zinc

Primary Audience: Nutritionists, Researchers