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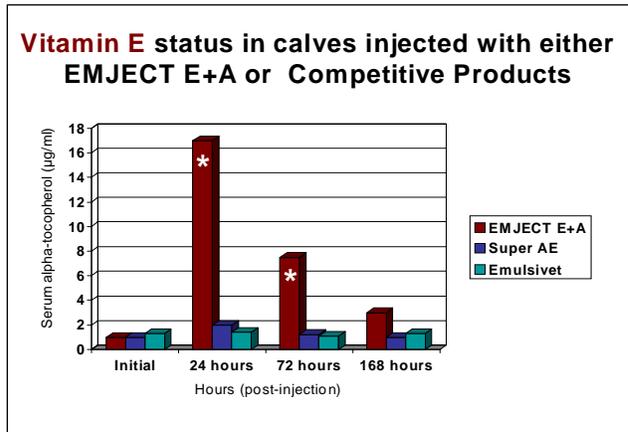
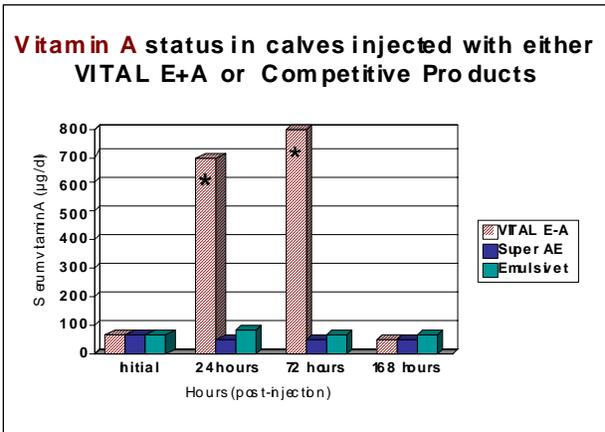
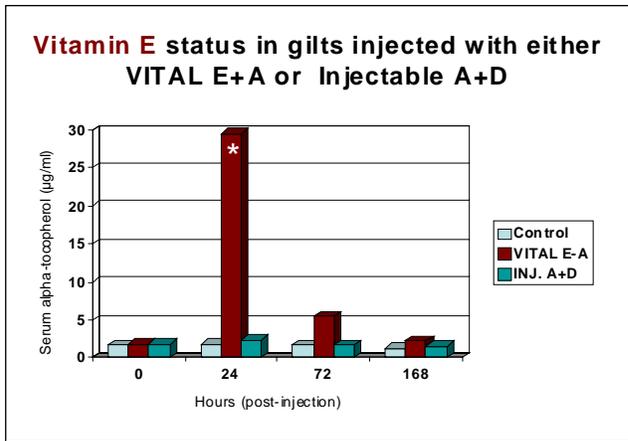
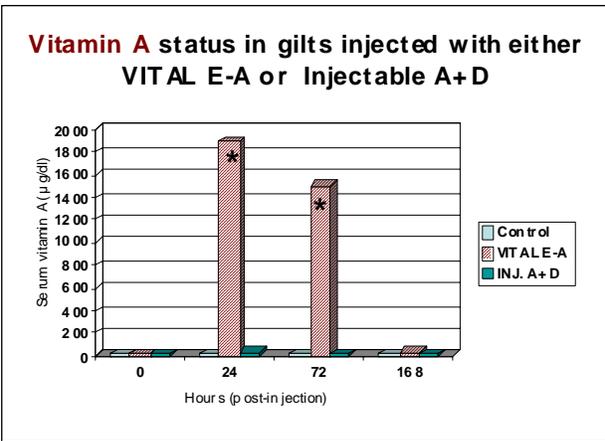
The Importance of Formulation and Bioavailability of Injectable Fat-Soluble Vitamins

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"Just because "knock-off" labels look the same as STUART PRODUCT'S "pioneer" products does not mean that bioavailability is also the same"

Although there are several private-labeled injectable vitamin E-based products available to the animal industry, there are dramatic differences in bioavailability between those "knock-offs" and the pioneer products developed by STUART PRODUCTS in 1989. Not only is the chemical form of vitamins important, but also, the emulsion system utilized is as critically important to assure that injectable vitamins are absorbed from the injection site.

It is critically important to demand bioavailability data from the manufacturer/supplier to assure product effectiveness to enhance vitamin status in animals. Just because a generic "knock-off" product is cheaper than the pioneer, does not mean that it is more economical or equal in bioavailability. Below are comparisons of VITAL E+A to either an A+D injectable in gilts, or E+A competitive products in calves (data on file, Stuart Products, Inc.).



Injectable Vitamin E products that have proven bioavailability:

VITAL E®-500 (500 I.U. vitamin E per ml)

VITAL E®-A+D (100,000 I.U. vitamin A, 10,000 I.U. vitamin D and 300 I.U. vitamin E per ml)