



PRODUCT DATA SHEET



VITAL E[®]-500

(500 I.U. vitamin E per ml, as d-alpha-tocopherol)
NDC 59007-1005-1

DESCRIPTION

Each ml contains: 500 International Units (I.U.) vitamin E (as d-alpha-tocopherol, a natural source of vitamin E), compounded with 18% ethyl alcohol and 1% benzyl alcohol (preservative) in an emulsifiable base.

Supplied in 250 ml multi-dose amber glass vials.

INDICATIONS

VITAL E-500 is a clear, sterile, non-aqueous solution of vitamin E. This product is intended as a supplemental source of vitamin E.

Natural tocopherols in feedstuffs can be destroyed through processing, ensiling, and storage. A reduced vitamin E intake can result in marginal deficiencies that may not be visible. Newborns are born with low vitamin E status and depend upon colostrum for vitamin E, provided the dam has consumed adequate vitamin E during gestation. Intramuscular or subcutaneous injections offer an efficient and rapid method to increase vitamin E status of animals.

ADMINISTRATION

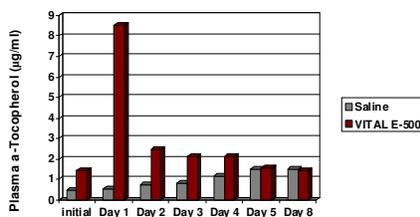
Intramuscular or Subcutaneous Administration Only. May be repeated as needed.

SUGGESTED DOSAGE

	mL
CATTLE	
Cows and Heifers	5-6
Calves	
At Birth	2-3
At Weaning	3-4
Yearlings	4-5
SHEEP	
Ewes	2-3
Lambs	
At Birth	1/2-1
At Weaning	1-2
SWINE	
Sows and Gilts	
1-2 wks pre-partum	3-4
1-2 wks pre-breeding	3-4
Pigs	
At Birth	1/4 1/2
At Weaning	1-2

EFFICACY STUDIES

Response of Piglets to VITAL E-500



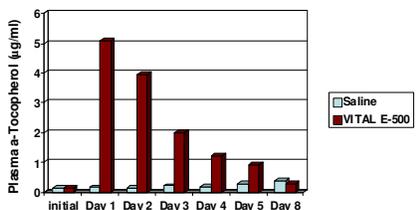
Each treatment consisted of five 30-day old weaned pigs. Each treated pig injected with 500 I.U. vitamin E. Days 1-4 were different (P<.05)

Sow Responses to Pre-partum Administration of VITAL E-500

Parameter	Control	VITAL-E [®] 1
No of Sows	3	6
Sow Serum Tocopherol (µg/ml)		
100 D postpartum	.80	.83
107 D postpartum	.90 ^a	1.49 ^b
Sow Colostrum Tocopherol	7.96 ^a	24.11 ^b
7-day milk	1.37 ^a	3.21 ^b
21-day milk	1.13	1.24
Pig 7-day Serum Tocopherol	2.11 ^a	3.81 ^b
21-day	2.27	2.79

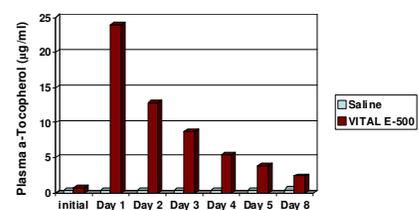
Chung and Mahan, 1990. J Anim Sci 68 (Supp 1):114) Sows injected I.M. with 3 I.U. per kg body weight at 100 and 107 day postpartum. ^{a,b}Means in same row with different superscripts are different (P<.05)

Response of Lambs to VITAL E-500



Each treatment consisted of five 90-day old lambs. Each treated lamb injected with 1000 I.U. vitamin E (2 ml). Days 1-5 were different (P<.05)

Response of Calves to VITAL E-500



Each treatment consisted of five 60-day old Holstein calves. Each treated calf injected with 1500 I.U. vitamin E (3 ml). Days 1-8 were different (P<.05)