



PRODUCT DATA SHEET



EMCELLE[®]-TOCOPHEROL

MICELLIZED, WATER-DISPERSIBLE, LIQUID VITAMIN E
(*d-alpha*-tocopherol liquid concentrate, 500 I.U. per ml)
NDC 59007-3001-1

DESCRIPTION

EMCELLE-TOCOPHEROL is a clear, micellized, water-dispersible, liquid solution of vitamin E. The product is specially formulated for use in liquid diets, mixed into drinking water, or top-dressed onto dry feeds at time of feeding. The product should not be mixed into complete feeds and stored for extended periods of time due to the unstable form of vitamin E.

The vitamin E activity is provided as *d-alpha*-tocopherol (RRR-*alpha*-tocopherol), a natural-source and biologically active form of vitamin E. This form of vitamin E, although less stable than ester-forms of tocopherol, does not have to be hydrolyzed (deesterified) prior to absorption. This is the same form of vitamin E (*alpha*-tocopherol) that is found in sows milk. This seems to be of greater importance to young piglets that may have a deficiency of esterase enzymes necessary to cleave the ester from the tocopheryl moiety prior to absorption. Piglets have been shown to be unable to efficiently utilize vitamin E esters supplemented in the feed (Moreira and Mahan, 2002, J. Anim. Sci. 78:110).

The micellization process makes the fat-soluble vitamin E water soluble further enhancing the ability of animals to absorb this source of vitamin E. The process allows the fat-soluble vitamin to be absorbed more readily than dry, oil-based, or emulsion-forms of vitamin E ester (See figure).

The combination of non-ester form and micellization dramatically improves pigs' ability to utilize the vitamin E in EMCELLE -TOCOPHEROL.

PACKAGE SIZE

Available in 1 liter (33.8 fl oz) plastic bottles. Twelve bottles per shipper.

FOR ANIMAL USE ONLY – NOT FOR HUMAN USE

Store at room temperature or under refrigeration.
Avoid freezing and excessive heat.



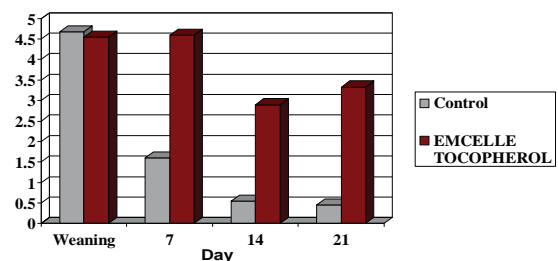
DRINKING WATER DIRECTIONS

To prepare a stock solution for newly-weaned pigs, mix 3 fl. oz. (100 mL) EMCELLE to one gallon of water. Meter the stock solution at the rate of 1 fl. oz. per gallon of drinking water. This will provide approximately **400 I.U. vitamin E per gallon drinking water (100 I.U. per liter)**.

Administer for up to up to 21 days post-weaning.

EFFICACY STUDIES

Piglet serum α -tocopherol ($\mu\text{g/ml}$) response to water administered EMCELLE TOCOPHEROL



Specht et al., 2003, J. Anim. Sci. 81(Suppl. 2):88 (Abst. 356).