



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 provides the highest biologically active form of vitamin E- ***d-alpha-tocopherol*** and is specifically formulated to be administered in drinking water and not 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 prior to absorption. This is of greater importance to young poultry that may have a deficiency of esterase enzymes necessary to cleave the ester from the tocopheryl moiety prior to absorption. Chicks and poults have been shown to be unable to efficiently utilize high levels of vitamin E-acetate supplemented in the feed (Bottje et al. 1997; Soto-Salanova, 1995). Furthermore, the micellization process enhances the ability of young animals to utilize vitamin E. The micelle process converts the fat-soluble vitamin E into a water-soluble form that is absorbed more efficiently than dry, oil-based, or emulsion-forms of vitamin E (See figures). Micellized tocopherol is the only method of supplementation that can maintain tocopherol levels in newly hatched chicks and poults. With **EMCELLE TOCOPHEROL**, the two critical steps (deesterification and micellization) necessary for absorption of vitamin E are not required.

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.



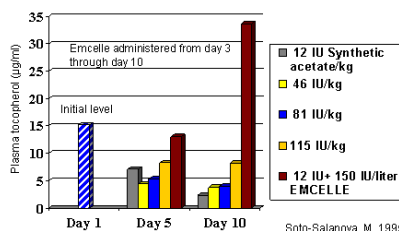
FEEDING DIRECTIONS

To prepare a proportioner stock solution for poultry, mix 3.5 oz. (100 ml) EMCELLE to one (1) 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)**.

Since the liver contains adequate vitamin E for up to three days, EMCELLE should be administered in the drinking water from days 3 through 10, or whenever a vitamin E deficiency is expected. For breeders, administer **30 to 50 I.U. per liter drinking water**.

EFFICACY STUDIES

Effectiveness of EMCELLE compared to synthetic vitamin E acetate on plasma tocopherol levels in poults



Effectiveness of EMCELLE compared to synthetic vitamin E acetate on liver tocopherol levels in poults

