

Animate[®]

Anionic Mineral Supplement

The Effect of Animate on Vitamin Stability

There is some concern by the feed industry that strong anionic or negative DCAD products are antagonistic to vitamin stability in mixed feeds. In an effort to assure present and future customers of Animate that it is compatible with vitamins we conducted a long-term study to evaluate the stability of vitamins in mixed feeds containing Animate.

To challenge the product, Animate was mixed directly with Vitamins A and E with no other additional feeds added, a practice not likely to occur in the field. Typically, Animate would be only one component of many in a TMR or top-dress supplement.

Animate was mixed with 200,000 IU/lb of Vitamin A and 1,000 IU/lb of Vitamin E in a V-blender. After the product was thoroughly mixed it was placed into 50 lb moisture proof bags, sealed and replicated. Representative bags were opened and sampled at 1, 3 and 6 months for vitamin stability. Roche assisted us in the design of the study and conducted the vitamin assays. The results are shown below.

Vitamin A Stability	1 Month	3 Month	6 Month
% Retention of Activity	100	90	87

Vitamin E Stability	1 Month	3 Month	6 Month
% Retention of Activity	100	93	89

Vitamins remain effective and stable when mixed with Animate for extended periods of time. This study demonstrates that Animate is compatible with vitamins in mixed feeds. The use of well-sealed bags to preclude moisture absorption is always a good practice especially under prolonged storage conditions.