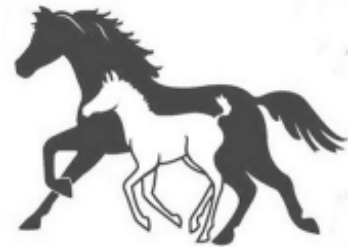




Ranvet



RANVET'S EQUINE NUTRITION SERIES

HUMATES...THE EQUINE X-FACTOR! (The Benefits of Feeding Humic & Fulvic Acids)

In simple terms, **minerals maintain life**. They function in all aspects of life and are critical components of growth, development and performance. Minerals supply neither energy nor protein to fuel the performance horse but rather they are critical to **HOW** energy, protein and fuels are used in the body. A large percentage of equine health and performance problems originate from imbalanced or deficient diets, particularly in the case of performance horses whereby the added stress of grueling training schedules and demand for essential nutrients is elevated significantly.

In complement to macro and micro minerals, two beneficial additions to the high performance diet include that of **humic and fulvic acids**, collectively referred to as 'humates'. Humates are extracted from archeological deposits of decomposed organic material, the principal ingredients of which are two carbon based organic acids; humic and fulvic acids, in addition to natural trace elements and minerals. Both humic and fulvic acids play a vital role in soil fertility, plant productivity and animal nutrition and have a very favourable effect on the digestive function of animals.

Humic acids aid to increase the permeability of cell membranes and thus facilitate transport of minerals from blood into cells. Furthermore, humic acids are able to form a protective film on the mucous epithelia of the intestinal wall guarding against infections and toxins. Fulvic acids have a high cation exchange capacity (CEC), which enable them to capture toxins/free radicals and remove them from the body. Furthermore, fulvic acids strong chelation ability captures essential minerals and places an electrical charge so they are highly bio-available for uptake by animals. The chemical and molecular structure of these two acids allow them to;

- Chelate essential vitamins and minerals, improving nutrient absorption.
- Stabilize intestinal microflora.
- Improve utilization of nutrients and hindgut health.
- Remove free radical scavengers and detoxify of toxic materials from the body.
- Catalyze enzyme reactions and increase metabolism.
- Increase appetite and feed intake.
- Improve feed conversion ratios.
- Heighten the immune response.
- Increase the oxygen carrying capacity of red blood cells, which can reduce healing time for injuries.
- Block or reduce the production of stress hormones in horses, pigs, sheep and cattle.

Ranvet's Humavyte®

Humavyte is a naturally derived organic material **containing over 60 vitamins and minerals in highly bioavailable form**. The organic material (humates) contained in Humavyte act to **optimize health and vitality, stimulate the appetite and improve digestion** through the actions of humic and fulvic acids.

Recent research has outlined the beneficial affects of humic and fulvic acids in horses, sheep, cattle, swine and humans.

Humavyte provides premium quality pasture in a bottle!

In addition to the benefits of humic and fulvic acids, Humavyte provides;

- Fat and water soluble vitamins.
- Essential chelated **macrominerals** calcium, phosphorus, iron, magnesium, potassium, sodium and sulfur.
- Chelated **microminerals** boron, cobalt, copper, iodine, manganese, selenium, molybdenum and zinc.
- Volatile oils, chlorophyll, sterols and alginates.
- Lesser known trace elements including titanium, vanadium, nickel, boron and strontium.

