

Prescription Wellness Supplement

This proprietary blend of ingredients is formulated by nutritionists at Kentucky Equine Research to be a source of beneficial nutraceutical compounds aimed at promoting the overall good health and soundness of all classes of horses.

KERx Hindgut Buffer

The KERx hindgut buffer uses proprietary encapsulation technology which facilitates release of the active ingredient into the cecum and colon of the horse. The hindgut of the horse is equipped with beneficial bacteria required for the digestion of fiber. The environment in which these bacteria flourish is easily disrupted when horses consume significant amounts of soluble carbohydrates, which are present in lush pasture and grain, and are rapidly fermented in the hindgut. The primary effect of this excessive fermentation is to dangerously lower the pH of the hindgut environment through accumulation of lactic acid. Disruption of the delicate hindgut environment can result in decreased forage digestion, general digestive upsets and production of endotoxins (which can cause a number of serious conditions including laminitis and colic). Recent research at KER has shown that horses consuming the KERx buffer did not exhibit hindgut acidosis when subjected to a hindgut challenge of a) high grain intake (figure 1) and b) high fructan intake (figure 2). Research is currently underway to investigate fiber digestion in horses supplemented with the buffer. Results to date indicate supplemented horses have increased ability to digest fiber.

Guaranteed Analysis per 120g

Hindgut buffer	60g
Mycotoxin binder (Toxy-Nil)	10g
Natural vitamin E (d-alpha tocopherol)	1000IU
Glucosamine	5000mg
Chondroitin sulfate	1000mg
MSM	1000mg
Biotin	5mg
Ground flaxseed.....	40g

Feeding Directions

Feed at a rate of 120g per day



P.O. Box 217
Croton Falls, NY 10519
914-276-3171

Formulated by:



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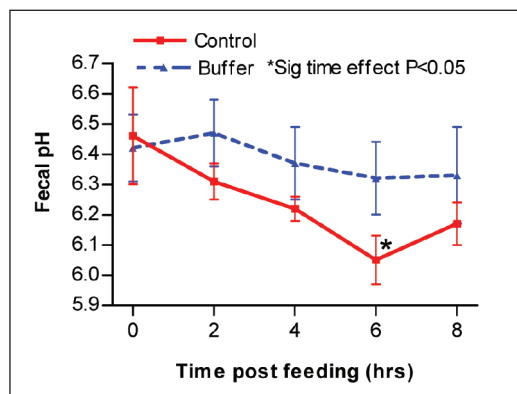


Figure 1. Fecal pH following consumption of a sweet feed meal

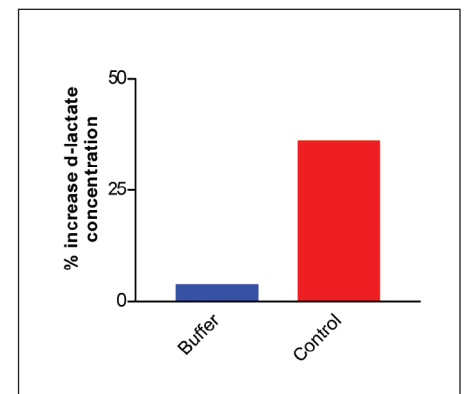


Figure 2. Percent increase in d-lactate concentration following a fructan challenge



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Glucosamine, Chondroitin Sulfate and MSM

Prescription Wellness Supplement is enhanced with glucosamine, chondroitin sulfate and methylsulfonylmethane (MSM). Glucosamine and chondroitin sulfate play key roles in the synthesis of synovial fluid and the major components of the articular cartilage matrix. Laboratory studies have illustrated the effectiveness of chondroitin sulfate in inhibiting the enzymes associated with inflammation and tissue destruction. MSM, a derivative of dimethyl sulfoxide (DMSO), is a bioavailable source of sulfur and is important in relieving pain and inflammation. All three of these key compounds have been provided at optimal levels to support normal joint health and are comparable to or greater than levels in joint supplements offered by competitors.

Vitamin E

Vitamin E functions as a biological antioxidant, preventing the oxidation of unsaturated lipid materials within cellular and subcellular membranes by neutralizing production of free radicals. It is a critically important nutrient for all horses but is especially important for exercise, reproduction, and for horses at risk of certain neurological diseases. Horses with limited access to fresh green forage have a greater need for supplemental vitamin E since the nutrient quickly becomes depleted in stored forages. Vitamin E can be obtained from natural or synthetic sources but the chemical structure and bioavailability of each is different. Research conducted at KER has shown the natural form of the vitamin to be 56% more bioavailable compared to the synthetic source. The vitamin E found in Prescription Wellness Supplement is from a natural source.

Mycotoxin Binder

Mycotoxins are toxic secondary metabolites produced by molds. These toxic substances can cause digestive disorders, reduced feed intake, and suppression of the immune system. Mycotoxin binders are adsorbents that can selectively bind to the mycotoxin during the digestive process, allowing the mycotoxin to pass harmlessly through the horse. Prescription Wellness Supplement is enhanced with the binder Toxy-Nil. Composed of high adsorbent clay minerals, fermentation extract, organic acids and antioxidants, this binder forms stable complexes with mycotoxins and prevents absorption of these toxic substances.

Ground Flax

The main carrier in the Prescription Wellness Supplement is ground flax. Flax is rich in omega-3 fatty acids. Omega-3 fatty acids play a key role in joint health, immune function, inflammatory response, and healthy hair coat. The supplement also contains added biotin, a water-soluble B vitamin essential for the maintenance of connective tissue found in skin, hooves, and hair.