



REBUILD. RESTORE. RENEW.

NEWS RELEASE

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Bio S.I. Technology Provides Horse Owners the Missing Link in Good Digestive Health

Justin, TX – October 2013– The key to a healthy horse lies in their digestive system.

Numerous reports have been published, including a 2008 article in a UC Davis veterinary newsletter, outlining colic as the leading cause of premature death in horses.¹ Colic is not a specific condition, but rather an overarching term used to describe any form of gastrointestinal discomfort.

Naturally, horses digest their food by fermenting the material in their hindgut. The hindgut of a horse accounts for two-thirds of their digestive tract. In this region, the complex plant material that a horse has eaten will be fermented by microbial bacteria present, and converted into absorbable nutrients.

Horses are used to grazing on seasonal grasses and grains. Rapid dietary changes and modern feeding practices of starch-based foods can be disruptive to normal fermentation and result in symptoms of colic.

In a recent study published by a team of veterinary scientists from the University of Massachusetts, gut microbiota were studied to determine mechanisms of recovery for common, yet potentially life-threatening afflictions including laminitis and colic.² It was discovered that, when available, beneficial bacteria act as a line of defense and will ward off preliminary symptoms.

So often, people will treat ailments after they become sick. This approach has led to the proliferation of antibiotics use, not only in humans, but in our animals as well. While antibiotics target bacteria that are the root cause of an ailment, good bacterial populations are also destroyed.

Horse owners treat their stock with a level of attention and affection that they might give to next-of-kin.

Good nutrition is one of the most important aspects of a healthy horse. Horses follow a variety of nutrition programs, depending on results the owner wants to achieve, whether through feed or grazing in a well-kept field.

Like humans, every horse has different nutritional needs that must be met based on their workload. An owner may want to feed their equine as they would a championship racehorse, by perfecting the balance of nutrients they receive. Much of this process is trial and error

¹ vetmed.ucdavis.edu/ceh/docs/horsereport/pubs-HR26-1-bkm-sec.pdf

² <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0077599>



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Deworming pastes and antibiotics can be tough on a horse's digestive system, killing good bacteria along with the bad.

Beneficial bacteria and yeast are present in a horse's intestinal tract. Probiotics are given to a horse orally, and horse feed and nutritional supplements will sometimes contain trace amounts of microbiota that will flourish in a horse's digestive tract.

Horses get supplemental microorganisms in each bite of food that they take. Food sources aren't sterile, and the presence of bacteria should be expected.

The natural food source for horses is grass, containing most of the nutrition that horses require to be healthy, including silica.

Hay, grains and concentrated mixtures are alternative forms of food for horses when they don't have the ability of being put out to pasture.

A horse's nutritional needs depend on their daily activity. It should be a combination of roughage, protein, fat and carbohydrates. Too much of certain nutrients can lead to problems such as founder, colic, kidney strain or obesity.

Colic can be prevented by avoiding rapid changes in diet and access to clean drinking water. JACKPOT II gives horse owners the extra edge on protecting their horses' digestive system.

Close living quarters and transportation of long distances cause stress and discomfort in a horse's diet.

JACKPOT II is a concentrated mixture of live culture microbial bacteria that will aid in the fermentation, digestion and absorption of a horse's food.

The bacteria found within are typically present in pasture soil and digested when a horse grazes. Grazing animals depend on these bacteria, and when kept in contained areas horses cannot naturally maintain the healthy levels that they need.

The JACKPOT II liquid formula contains a minimum of 10 million CFU/ml total microorganisms.

JACKPOT II is best used when shipping, hauling or boarding a horse, or during and after antibiotic use or deworming.

JACKPOT II contains the necessary beneficial microbes specifically formulated for horses to keep their digestive tracts working healthy, and may reduce the reliance on low-dose and prophylactic antibiotics. With the added stress of moving them, changes in their environment, and being kept in confined areas for long periods of time can affect horses' health. The addition of Bio S.I.'s JACKPOT II to nutrition programs can help reduce health issues in horses brought on by stress, poor diet, worming, and the overuse of antibiotics.



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Bio S.I.'s JACKPOT formulas are highly effective and concentrated. Apply 1-2 oz per every 50 gallons of water or 1-2 drops directly on top of feed. JACKPOT formulas are available for purchase in pints, quarts, gallons, 2.5 gallons, 5-gallon pails, and 55-gallon drums or totes at farm supply stores or online at www.biositechnology.com. Larger orders can be delivered upon request.

About Bio S.I. Technology

Bio S.I. Technology, LLC is a USDA BioPreferred™ member and includes a team of experts who have over 20 years of experience producing microbial products. Bio S.I. produces a variety of microbial products including Bio S.I. Turf Formula, Turf Select, Lawn & Garden Formula, Lawn & Garden Select, Agriculture Formula, Pond Formula, Septic Cleanser Formula, Remediation Formula and JACKPOT, a new pro-biotic product which brings the naturally beneficial soil borne microbes found in nature to animals. For more information about Bio S.I. Technology, or to purchase their cutting-edge formulas, please visit www.biositechnology.com.

If you would like further information, images, or would like to schedule an interview with Wayne Tucker, President of Bio S.I. Technology, please contact Michael Mitchell via email at mmitchell@christiecomm.com or by phone at 805-969-3744.