

SarStart[®] for Horses



- Combat EPM Symptoms
- Enhance the Immune System
- Better Attitude and Feel
- Increased Energy



EPM is a Protozoal Disease

SarStart[®] Customer Observations:

"My mare looks 100% better than she did before SarStart[®]."

"I like what I am seeing with my horse. He is peppier and has more energy."

"After treating a horse, within three days, the horse was acting much better. By day 5 the horse was almost 100%."

"The first time I put SarStart[®] on the horse's feed, he did not eat it. Now he nudges me out of the way when I mix it in his feed."

"My horse is easier to handle after using SarStart[®]."

"The horse behaved like an 'idiot' before getting the SarStart[®]. After being treated with SarStart[®], the horse was 'gentle' and 'easy to ride'."

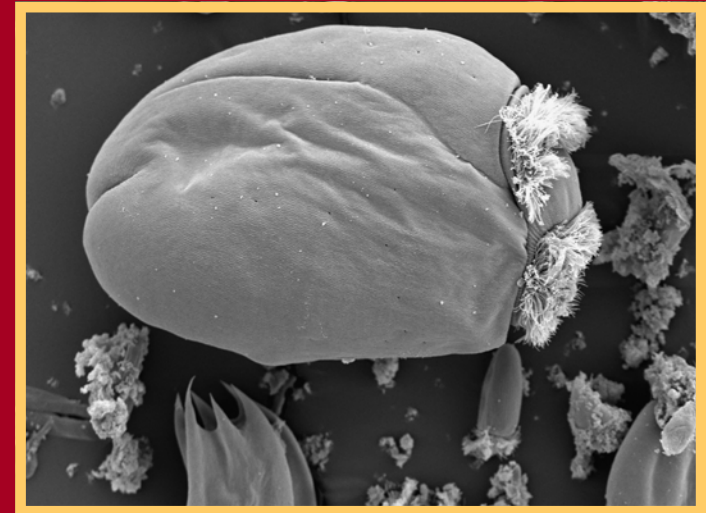
One customer had a horse that could barely bend around, but after treating with SarStart[®], the chiropractor said, "the horse was like butter to adjust."

"...the horse was so thin it wouldn't eat much. After feeding SarStart[®] for about a month the animal has filled out all over. The mare's poverty line is gone and she is generally in a whole lot better shape. She looks like a healthy horse again and I'm sure SarStart[®] did it."



SarTec®

www.sartec.com 1-800-472-7832



Protozoa (such as the one pictured above) cause disease and steal energy away from the host animal via several routes. Yucca-based SarStart® products are designed to kill protozoa.



SarStart® is a liquid additive that can be easily mixed directly into a horse's feed. **SarStart®** contains saponins (from yucca schidigera extract) that have been shown to kill protozoa in the digestive tracts of animals.

Call **800-472-7832** to speak with a Local Representative about SarTec's **SarStart®** Products

Can **SarStart®** help control EPM?

"An interesting possibility is that **yucca saponins may control the protozoa that cause the fatal disease equine protozoal myeloencephalitis (EPM)**. Lending support to the saponin suppression of intestinal protozoa theory is that saponins have been investigated as potential antiprotozoal agents against human disease. Saponin-containing plant extracts have protective activity against the human disease leishmaniasis (McClure and Nolan, 1996), which is second in importance only to malaria among the protozoal diseases of humans. Another significant point is that **saponins stimulate the immune system** (Maharaj et al., 1986) and produce an array of antigen-specific and nonspecific immune responses (Chavali and Campbell, 1987). Saponins are used as adjuvants in antiprotozoal vaccines (Bomford, 1989). Thus, **it is possible that dietary yucca saponins will not only have protective effects against EPM by killing sporozoites in the intestine, but they may also stimulate the immune system to give horses increased resistance against any protozoa that do invade their tissues.**"

Source: Proceedings of the American Society of Animal Science, 1999 *Actual and potential applications of Yucca schidigera and Quillaja saponaria saponins in human and animal nutrition*; P. R. Cheeke (Professor of Comparative Nutrition), Department of Animal Sciences, Oregon State University, Corvallis 97331.