



APPLICATION NOTE – DEHYDRATION AND COLIC MONITORING IN RACE HORSES AND OTHER ANIMALS

Application Need: In the Veterinary Marketplace, the requirements placed on both performance and show horses make it necessary to properly diagnose the presence of dehydration and colic.

The Problem: A horse's own physiologic response to exercise, as well as climate and terrain, can effect the level of water lost during an event. In endurance events, water losses tend to occur early in the ride and often persist even a day after the ride. Horses do not typically drink enough water to replace losses endured during an event, so the number of dehydrated equines is quite high. Though Colic is common in the equine practice, correctly diagnosing it's severity and recommending the proper treatment is critical. Often, no definitive findings can be revealed through physical examinations.

The Solution: The Reichert RHINO VET 360 hand held refractometer is the world's only refractometer specifically designed for Veterinary use. The Urine Specific Gravity scale and Plasma Protein scale are designed for use with animals of all sizes. Unlike other refractometers that are designed for human measurement, the Reichert RHINO VET 360 is only designed for animal measurement. Detection of Dehydration is rapid and accurate, by placing a drop of urine on the prism and measuring against the Urine Specific Gravity Scale. To detect for Colic, elevated protein levels can be measured using the Plasma Protein scale.

Product Recommendations:

Reichert RHINO VET 360 Refractometer, Reichert Cat #

137536L0 ✓ Easy to use by personnel with limited laboratory training ✓ Rugged and leak-proof; designed for field use. IP67 rated.

- ✓ Test takes only seconds
- ✓ Automatically temperature compensated produces accurate and precise readings ✓ UrSG scale for Large Animals/Dog and Cat – 1.000 to 1.060 UrSG
- ✓ Plasma Protein scale – 2 to 14 gm/100ml protein concentration