



The latest in superior care and nutrition for your horse- Now in select Poulin Grain equine feeds

What is Ca⁺RE EQ™?

Ca⁺RE EQ™ is a highly bioavailable marine algae derived calcium source for superior gastric buffering, improved bone density and repair, reduction in joint inflammation, and reduced overall stress in horses.

Ca⁺RE EQ™ is beneficial for all types and classes of horses including foals, weanlings, yearlings, gestating mares, lactating mares, geldings and stallions, and can now be found in select Poulin Grain equine feeds.

What makes Ca⁺RE EQ™ So Effective?

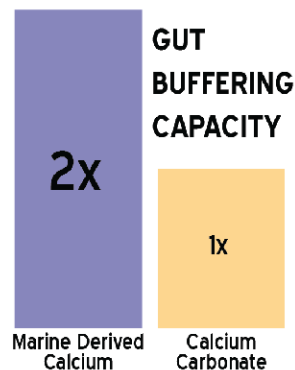
Ca⁺RE EQ™ provides a natural and highly bioavailable source of calcium, magnesium, and over 70 trace minerals from a marine algae derived mineral source, listed on ingredient tags as “calcite”. The unique microscopic honey comb structure of this complex provides a large surface area for digestive enzymes to act, causing increased utilization and uptake of calcium and other minerals, for a variety of beneficial effects on your horse’s overall health and performance.



The large surface area and microscopic honeycomb structure of this marine derived complex makes its minerals highly bioavailable and active in the horse’s body.

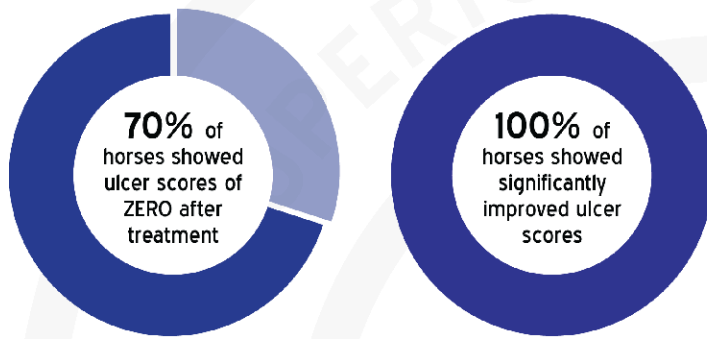
Gastric Buffering:

Gastric ulcers are all too common among many classes of horses, jeopardizing their health, comfort and performance. Approximately 90% of racehorses in training^{1,2} and advanced level competition endurance horses have gastric ulceration³, 58% of show horses⁴, and 53% of non-performance horses that are not involved in intense work⁵. Excessive acidity in the stomach is shown to be a primary factor in the development of gastric ulcers in horses, due to fasting, infrequent meal feeding, high cereal grain diets, low roughage diets, travel, stress, or long term use of NSAIDS¹⁰.



The porous honey comb structure of marine derived calcium allows for double the gastric buffering capacity of traditionally used calcium carbonate (limestone)⁶, providing superior pH regulation in the gut through the slow and effective release of calcium.

Research showed in a group of horses with varying degrees of ulceration, feeding a natural algae derived calcium source reduced the acid damage to the stomach mucosa over a 30 day period. 100% of the study's horses showed reduced ulceration scores, with 70% of horses having an ulcer score of zero after 30 days⁷. Improved gut pH regulation results in optimized performance, willingness and attitude of horses who may already suffer from gastric ulcers.



In a group of horses with varying degrees of ulceration, feeding an algae derived calcium source significantly reduced ulceration after 30 days.

Bone Density and Repair:

Bone remodeling occurs continuously throughout a horse's life and is essential to proper development, soundness and longevity. Several factors can affect bone density and remodeling including the horse's age, health, housing, management, training and exercise intensity.

When a horse is stall bound, bone density can be quickly lost due to lack of exercise, under stimulation of the bone, and decreased bone turnover.

Lack of bone density puts horses at risk for lameness, and injury when returning to work.

A study at Michigan State University demonstrated that a group of yearlings supplemented with marine derived minerals showed a significant difference in blood markers of bone metabolism (formation and resorption) and bone density compared to a group of yearlings fed Calcium Carbonate⁸. Results suggest that the improved bone density support offered by supplementation may help shorten recovery periods, reduce risk of bone loss, and reduce the likelihood of bone re-injury after return to work.

Stress Reduction:

Test results suggest reduced reactivity to startling stimuli in horses supplemented with marine derived minerals⁹.

How can I tell if Ca+RE EQ™ is in my feed?

Ca+RE EQ™ is now included in the following Poulin Grain equine feeds:

E-TEC® Fibre-Max
E-TEC® One
Equi-Pro® Mare & Foal
Equi-Pro® East Coast Race
Decade® Challenger

Later this year, feed bags will begin to reflect the Ca+RE EQ™ icon as newly printed bags hit the market.

If your feed bag doesn't have the Ca+RE EQ™ icon, don't worry! For now, check the tag: The ingredient will be listed as "Calcite."



Poulin Grain partners with Performance Horse Nutrition to provide cutting-edge nutritional expertise. PHN is recognized nationally and internationally as experts in equine nutrition.



If you would like to learn more about Poulin Grain's complimentary forage analysis, diet balancing for your horse, and other personalized services, please visit www.poulingrain.com or call 800-334-6731 to speak to a feed specialist near you!

^[1] Murray MJ, Schusser GR, Pipers FS, Gross SJ. Factors associated with gastric lesions in thoroughbred racehorses. *Equine Vet J* 1996;28:368-74.

^[2] Begg LM, O'Sullivan CB. The prevalence and distribution of gastric ulceration in 345 racehorses. *Aust Vet J* 2003;81:199-201.

^[3] Tanzi LY, Marguet C, Priymenko N, Lyazhi F. Prevalence of gastric ulcer syndrome in high-level endurance horses. *Equine Vet J* 2011;43:141-4.

^[4] McClure SR, Glickman LT, Glickman NW. Prevalence of gastric ulcers in show horses. *J Am Vet Med Assoc* 1999;215:1130-3.

^[5] Luthersson N, Nielsen KH, Harris P, Parkin TD. The prevalence and anatomical distribution of equine gastric ulceration syndrome (EGUS) in 201 horses in Denmark. *Equine Vet J* 2009;41:619-24.

^[6] Moore-Colyer, Meriel, Denise M. O'Gorman, and Katherine Wakefield. "An in vitro investigation into the effects of a marine-derived, multimicrobial supplement in simulated equine stomach and hindgut environments." *Journal of equine veterinary science* 34.3 (2014): 391-397.

^[7] T. Mour, J. O'Brien, S.R. Hill, L.A. Waldron. "The Influence of feeding a high calcium, algae supplement on gastric ulceration in horses." *Journal of Applied Animal Nutrition* 4.e8 (2016).

^[8] Nielson BD, Cate RE, O'Connor-Robinson CI. "A Marine Mineral supplement alters markers of bone metabolism in yearling Arabians." *J Equine Vet Sci* 2010;30:419-24.

^[9] Nielsen BD, O'Connor-Robinson CI. "A pilot study to determine if a dietary mineral supplement can affect reactivity to stimuli by horses in training." *Comparative Exercise Physiology* 10.3 (2014): 159-165.

^[10] Sykes, B. W., et al. "European college of equine internal medicine consensus statement—equine gastric ulcer syndrome in adult horses." *Journal of Veterinary Internal Medicine* 29.5 (2015): 1288-1299.

*Ca+RE EQ™ is sourced from Calsea Powder® Advance, a registered trademark of Timab Industrial Products.