

# ENZALOX™

REDUCE **OXIDATIVE STRESS** IN HORSES  
SUPPORT RECOVERY FROM TRAINING OR COMPETITION

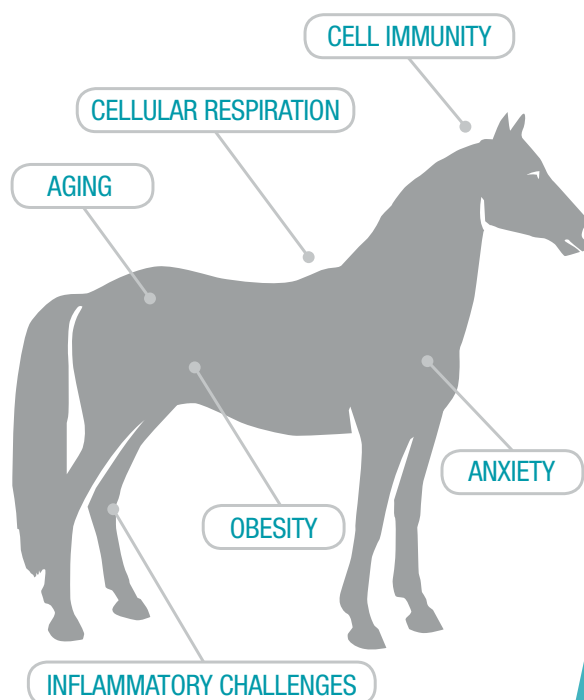
## DAMAGE FROM OXIDATIVE STRESS

Like humans, horses are susceptible to oxidative stress at the cellular level. The basic functions of animal cells produce biochemical components called reactive oxygen species (ROS) that can create free radicals.

If these free radicals are not met with antioxidants, an imbalance can occur that results in oxidative stress. This stress can alter cell membranes and DNA.

As a result, horses can experience:

- Poor health status
- Loss of immune system efficiency
- Inflammation
- Weakening of the muscle membranes
- Mobility issues



## PROVIDE ANTIOXIDANT SUPPORT

A primary antioxidant enzyme — superoxide dismutase (SOD) — transforms ROS into less harmful molecules, which helps protect against oxidative stress. This also allows secondary antioxidants to protect against free radical damage.

SOD is documented to have beneficial effects in supporting:

- Proper weight management
- Normal body function in aging animals
- Normal behavior to external stresses
- Normal immune function

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## EQUINE ANTIOXIDANT SUPPLEMENT

Enzalox™ is a freeze-dried melon juice concentrate naturally rich in primary antioxidant enzymes, which stimulate SOD, the first line of defense to the negative effects of oxidative stress.

SOD protects against free radical damage, which:

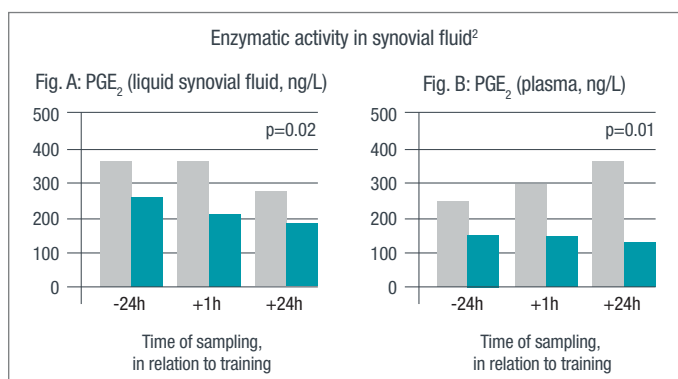
- ▶ Supports recovery from training and competition
- ▶ Helps maintain integrity of muscles and cartilage
- ▶ Supports positive equine fertility
- ▶ Complements secondary antioxidants like vitamins E, C and A
- ▶ Offers a unique mode of action not found in other vitamins

## SUPPORTS RECOVERY

The primary enzymes found in Enzalox are proven to increase a horse's ability to recover from physical effort. In a study, Enzalox supplementation helped protect body cells and tissue by decreasing cell membrane permeability, which is a marker of muscle integrity.<sup>1</sup>

## HELPS MAINTAIN MUSCLE AND CARTILAGE INTEGRITY

Horses supplemented with Enzalox can better maintain muscle and joint integrity, by supporting normal cell function. In a study, horses fed Enzalox had lower levels of markers for inflammation, oxidative stress and enzymes that weaken muscle integrity compared to control horses.<sup>2</sup>



## ENZALOX FEEDING RECOMMENDATIONS

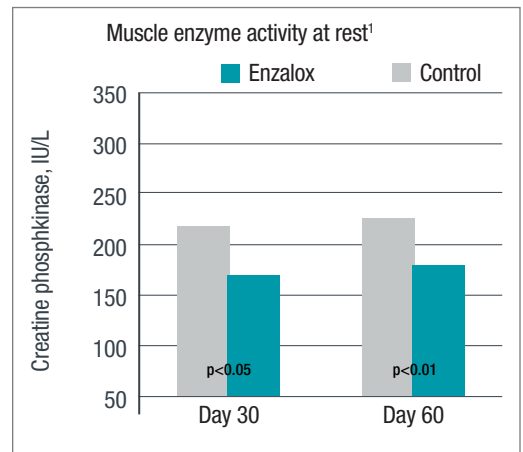
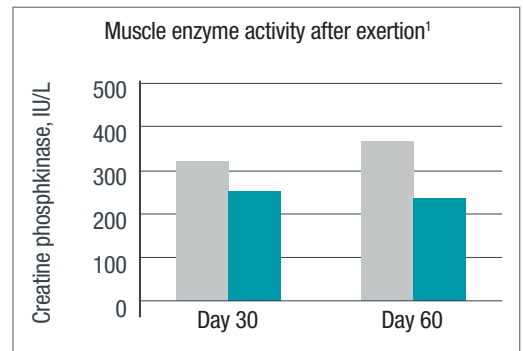
Enzalox contains no genetically-modified organisms (non-GMOs) and is specifically formulated for animal nutrition. Include 200 mg of Enzalox per adult horse per day.

### References

<sup>1</sup> Notin C, Vallon L, Desbordes F, Leleu C. Oral supplementation with superoxide dismutase in Standardbred trotters in training: a double-blind placebo-controlled study. *Equine Vet. J.* 2010(42); Suppl. 38:375-381.

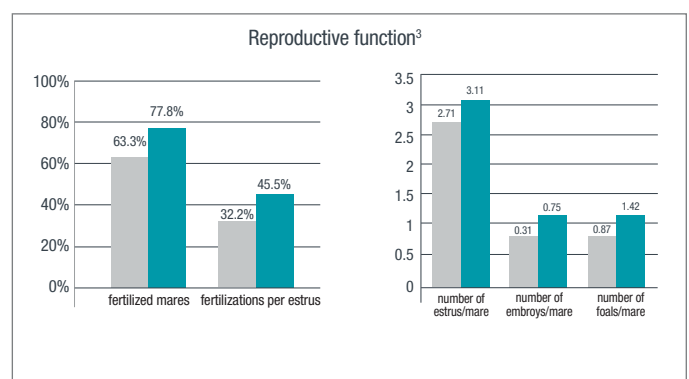
<sup>2</sup> Barbé F, Sacy A., Le Treut Y., Lennen C., Lindinger M., Maintien de l'intégrité musculaire et articulaire: les bénéfices de la Superoxyde Dismutase végétale. *Journée de la Recherche Équine.* March 16, 2017

<sup>3</sup> Lallemand Animal Nutrition. Reference on file. Haras M'Aurea 2006.



## SUPPORTS REPRODUCTIVE FUNCTION

In a study, Enzalox helped increase the number of fertilized mares and fertilization per estrus compared to controls.<sup>3</sup> In the same study, the number of estrus expressions, embryos and foals per mare were increased.<sup>3</sup>



## ABOUT LALLEMAND ANIMAL NUTRITION

Lallemand develops, manufactures and markets high-value yeast and bacteria products including probiotics, silage inoculants, yeast derivatives and antioxidants. Using sound science, proven results and knowledge from experience, Lallemand applies the right strains for the right applications to have the greatest impact for our customers.

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