

## Alkosel<sup>R397</sup>, protects your horse

Selenium is a key trace element required in the diet to support antioxidant and immune function. Selenium is required for optimum function of the key antioxidant enzyme: glutathione peroxidase, which helps to increase resistance to physiological stress by limiting the potential damage by reactive oxygen species or free radicals that are produced as a by-product of normal metabolism.

Typically, the level of selenium in an unfortified diet can be low, as grass and other feed ingredients may contain only a low natural background level of selenium. Supplementation of the diet with additional selenium is therefore almost always essential.

## Alkosel<sup>R397</sup>, yeast rich in organic selenium

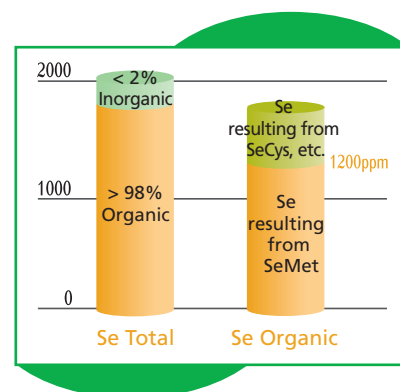
Manufactured in the Lallemand plant, Alkosel<sup>R397</sup> is an inactivated yeast that contains high levels of organic selenium (min. 98%) as predominantly seleno methionine (SeMet).

## Organic selenium from Alkosel<sup>R397</sup> is bioavailable

In the form of selenomethionine (SeMet), selenium is more bioavailable in the horse compared to the traditional form of selenium (sodium selenite) used.

SeMet is absorbed intact as an amino acid chelate by a process of active absorption. Seleno methionine is the form that selenium is naturally found in plants and it is considered to be a much safer source of selenium.

There is considerable evidence to support the efficacy and increased safety of this specific strain of *Saccharomyces cerevisiae* NCYC R397 as a source of selenium.



## Alkosel<sup>R397</sup>



- 1 strengthens immunity
- 2 improves reproductive parameters
- 3 protects cells during stress period and intensive training





## 1 Alkosel<sup>R397</sup> strengthens immunity

- Strengthens immunity in all horses including brood mares.
- Improves selenium supply to foals via mare's milk and so increases natural defences.
- Supports normal muscle function in exercising horses, particularly those horses at risk from muscle damage or other muscular related problems.

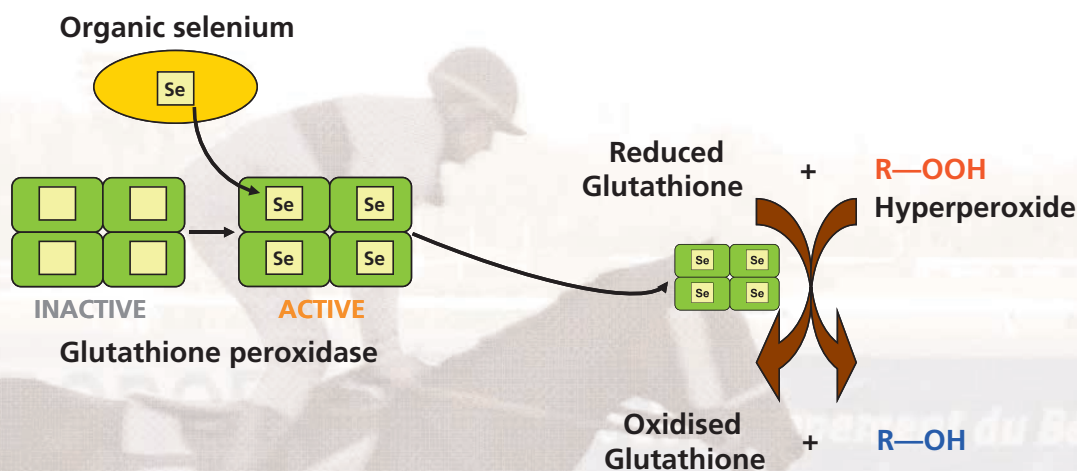


## 2 Alkosel<sup>R397</sup> improves reproductive parameters

- Improves milk quality (somatic cell) and selenium content.
- Supports normal foaling, especially in horses at risk from placental retention.
- Improves semen quality and fertility of breeding stallions.

## 3 Alkosel<sup>R397</sup> protects cells during stress period and intensive training

Selenium is transferred via an organic form (selenomethionine / selenocysteine) to bind to the subunits of glutathione peroxidase, or other antioxidant enzymes that require selenium as a cofactor. In this form, the enzyme is activated allowing it to function as a primary antioxidant, eliminating potentially harmful free radicals (hydroperoxide: R-OOH) present in the cell through glutathione oxidation.



**HORSES**  
2-3 mg/day\*

### Recommended inclusion rate

\* 0.3 mg/kg ppm of organic selenium, 2-3 mg/horse/day (0.2-0.3 mg/kg dry matter).