



Super FEED Specialties

NUTRIA HELLAS PC



HEAT STRESS PROTECTANT

NOUTRIA HELLAS as serving the objective of efficient operation, in conjunction with the innovative, scientifically advanced and vital services to the clients of breeders, agronomists and livestock supplies traffickers, presents its new product HEAT PROTECTANT, as a feed supplement in order to face the heat side effects in dairy ruminants.

HEAT PROTECTANT is a new formula based on potassium homeostasis, balance the pH of the rumen, and increasing the energy content of the diet in order to minimize the negative impact of ruminants in high and extreme temperatures during the summer months. It contains high bioavailability potassium carbonate, bioactive yeast (*Saccharomyces cerevisiae*), calcium propionate, high quality protected vegetable fat rich in palmitic acid and essential oils.

A scientific view

The cows export from the thermoneutral zone where mercury pass the 22 ° C and humidity of 45% and enters a heat stress condition. Even after 26°C is obvious the fall of consumed quantity of dry matter and as a result of this, milk production also decreased.

A heat stress situation, because of disruption of homeostasis of the organism, brings many problems:

- 1.The rate of breathing and breathlessness increase, so the maintenance requirements of animal increase by 10% and more free radicals generate due to increased respiration rate (ROS), causing in oxidative stress.
- 2.The rumination time is reduced (reduce in rate of exploitation)
- 3.Potassium in blood is reduced
- 4.The reduced dry matter intake is done against in the forage (when it is possible), therefore the ratio of forage to concentrate is altered and the buffering capacity of the rumen with a possible extension acidosis.
- 4.The increased body temperature of cows is deterrent to sit the animals at rest positions and prolonged standing overwhelmingly increases lameness rate (hobble).
- 5.In cows, which are in the first phase of lactation, dry matter intake is reduced and in connection with the negative energy balance, ketosis is a possible outcome.
- 6.Taking into account the above, a US survey, which conducted in Ohio in 2003, points out that the economic consequences of heat stress at EUR 142 / cow / year even in stifles facilities with adequate vent/.

HEAT PROTECTANT:

1. Control the homeostasis of potassium
2. It is able to balance the rumen pH, as a result the feed conversion index increased even if the dry matter intake decreased.
3. Increase the energy content of feed with high quality and digestibility plant fat, which convert directly in energy, so decrease the potential of ketosis
4. As heat stress side effect decreased, the above product ensure adherence to dairy production or deposition of body weight

HEAT PROTECTANT administered in an amount of 100-250 grams / head / day for dairy cows and 30-80 grams / head / day in dairy goats.

Available in 25 kg bags

CAUTION: Not recommended for use in cows in the dry period.

[NATO Avenue, Thesi Agios Georgios, Aspropyrgos 19300, Greece](#)

Tel +30 2105595503-Fax +30 2105595513 , info@nutriahellas.gr -www.nutriahellas.gr