



**PerC GABA**

**Rumen-bypass GABA**

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PerC GABA is to coat substances resistant to rumen degradation onto gamma-aminobutyric acid (GABA) to ensure rumen-bypass GABA to be released in small intestine, which plays the roles of anti-stress and promoting feed intake.



### The needs for adding rumen-bypass GABA in ruminant's diets

Stress is the sum of nonspecific response throughout the body for a variety of stimuli. When animals are in stimulus, sympathetic nerves will be excited, increasing the secretion of adrenocorticotropic hormone (ACTH), which leads to various functional and metabolic abnormalities, such as the increases of blood sugar, blood pressure and heart rate and shortness of breath, eventually production performance will be affected.

Stress is ubiquitous in modern breeding industry. A variety of stimuli that trigger stress reaction of animals are called as stressors or stress factors. The stresses undergone by ruminants mainly include transportation stress, heat stress, weaning stress, reproductive stress etc. So how to resist stress is the problem that feed and breeding factories should be confronted with.

GABA is an important neurotransmitter in the central nervous system of mammals. It not only has physiological effects such as sedation, lowering blood pressure and anticonvulsion, but also plays a role of hormone or nutritional factor in non-nervous tissues, which plays an important role in regulating normal physiological functions of animals. But GABA is easier to be degraded by micro-organisms in rumen to lose its bioavailability, therefore it is necessary to coat substances resistant to rumen degradation onto GABA.

### Guaranteed Analysis Values

GABA ≥ 30%; taurine ≥ 0.5%

### Characteristics

The product is light yellow granules, complete encapsulation, good dispersion, easy to mix, rumen-bypass rate ≥75%, small intestine release rate ≥95%

### Efficacy

1. Inhibit the release of  $\alpha$ -MSH to improve appetite.
2. Alleviate animals' heat stress and regulate immune function
3. Alleviate animals' transportation stress.
4. Improve dairy cows feed intake and the ability of antioxidant stress

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### Species

Dairy cow, beef cattle, milk goat, mutton sheep and other ruminants

### Dosage

Dairy cow: 2-4g/d,

beef cattle: for alleviating heat stress in fattening period: 1kg/t (concentrate supplement feed), for alleviating transportation stress: 1-2kg/t (concentrate supplement feed)

mutton sheep: 0.5-1kg/t (concentrate supplement feed)

### Packaging

This product is packaged in a bag or barrel, the net weight of product is 25kg, and details see the package label.

### Note

In order to ensure uniformity in the feed, the use of this product need to be premixed firstly, and then gradually added to the follow-up feed.

This product is used as soon as possible after unpacking, the remaining parts need to tie up and keep in dark place.

### Storage & Shelf life

Keep away from heat, moisture and direct sunlight, not with toxic and harmful substances mixed.

Under the condition of original package, the shelf life is 12 months.



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