

FerAppease®

Maternal Bovine Appeasing Substance



Handling cattle, at times, can be a dangerous and risky exercise - especially when animals are stressed or upset.

However, Agilis Vet Ltd offers a solution in the form of **FerAppease** – an easy-to use spray that reduces stress and the detrimental effects this can have on cattle and those handling them.

FerAppease has no withholding periods for meat and milk, is easy and simple to use – making it a 'no pain, all gain' way of safely handling cattle.

FerAppease contains a synthetic analogue of the Maternal Bovine Appeasing Substance (MBAS) for topical use (applied to the skin) in healthy cattle. It acts by stimulating the vomeronasal gland, which desensitizes the amygdala regions in the brain that can cause aggressive behaviour. This results in the hypothalamus – another area in the brain that helps to stimulate key functions and helps to regulate temperature, weight and emotions – dramatically decreasing the animal's perception of threat and any downstream effects.

How It Works

The amygdala parts of the brain are where responses – including fear, anxiety and aggression are formed. These respond quickly to potential threats in the environment and play a key role in determining whether an animal perceives the environment as safe or dangerous.

This threat perception leads to activation of the hypothalamic-pituitary-adrenal (HPA) axis and an increased release of the glucocorticoid hormone cortisol from the adrenal glands. It also increases the release of hormones such as catecholamine, epinephrine and norepinephrine. This can all lead to elevated stress levels in a cattle beast – as well as inflammation, decreased DMI, weight loss, increased morbidity and even mortality.

As a topically administered (applied to the skin) Maternal Bovine Appeasing Substance (MBAS), **FerAppease** is absorbed by the vomeronasal organ located in the nasal cavity. When applied it simulates the vomeronasal gland, desensitizing regions of the amygdala and the hypothalamus and thus decreasing the animal's perception of threat and reducing its stress level.



A Reduced Threat Perception Leads To:

- + *Reduced flight zones*
- + *Lower levels of cortisol*
- + *Lower inflammation*
- + *Lower morbidity and mortality*
- + *Increased weight gain*

Product Information

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Situations where FerAppease may be useful:

- Transportation
- Weaning
- Dehorning
- Parturition
- Commingling
- Castration
- Handling
- Breeding

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Benefits

Research shows that FerAppease can positively impact:

- Cortisol levels
- Feed efficiency
- Body weight gain
- Response to treatments
- Meat pH
- Return on investment

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Composition

It contains a synthetic analogue of the Maternal Bovine Appeasing Substance (MBAS)- 10%, 100 mg/mL.

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Application

Two sprays before animals are exposed to stressful events:

- One to the nuchal skin (a normal fold of skin at the back of a cattle's neck)
- The other to the skin above the muzzle.

Dosage

- For adult animals: 5mL x2
- For young stock: 2.5mL x2

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Storage

At room temperature (10-30 Celsius) – **do not refrigerate or freeze.**

Broach time: 3 months

Retreatment interval (as required): 14 days

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Withholding periods

- Meat: Nil
- Milk: Nil

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Pack Size

- 300 mL
- Applicators sold separately

