



EXCELLENCE IN EQUINE NUTRITION



HORMONE BALANCER

BEHAVIOURAL & HORMONAL BALANCER

HORMONE BALANCER

TRM's **HORMONE BALANCER** is a liquid feed supplement scientifically designed to tackle **heat stress** experienced in mares. It includes ingredients that regulate the 5 key parameters experienced by the mare during heat cycles, viz -

- A. Hormonal imbalance
- B. Pain
- C. Bone weakening and cramps
- D. Fluid retention and oedema
- E. Mood swings

A. HORMONAL IMBALANCE

Chaste Berry, also known as Vitex agnus-castus, work as a hormone regulator by the following mechanisms:

1. Regulation of Prolactin:

Chaste berry acts primarily on the pituitary gland to influence the secretion of prolactin, a hormone that plays multiple roles in reproductive physiology.

Prolactin levels can impact the mare's oestrous cycle, and abnormal levels of prolactin can contribute to irregularities in reproductive function.

By modulating prolactin secretion, chaste berry helps normalize hormonal patterns, potentially reducing the intensity and duration of oestrus behaviour.

2. Influence on Luteinizing Hormone (LH) and Follicle-Stimulating Hormone (FSH):

Chaste berry has been observed to affect the secretion of LH and FSH from the pituitary gland.

LH is crucial for triggering ovulation, while FSH stimulates the growth and development of ovarian follicles.



By regulating LH and FSH levels, chaste berry can help synchronize and balance the mare's oestrous cycle, promoting normal reproductive function.

3. Modulation of Progesterone and Oestrogen Levels:

The secretion of LH and FSH stimulated by chaste berry can indirectly influence the levels of progesterone and oestrogen in the mare.

Progesterone is essential for maintaining pregnancy and preparing the uterus for implantation, while oestrogen regulates the mare's behaviour and reproductive readiness. Balanced levels of these hormones are critical for a healthy oestrous cycle, and chaste berry helps restore this balance by regulating pituitary hormone secretion.

Overall, chaste berry is thought to exert its effects by modulating the mare's hormonal balance, particularly by influencing prolactin, LH, and FSH levels. By doing so, it may help reduce the int

B. PAIN

Magnesium chloride is used as a supplement for managing pain and discomfort in mares during heat stress or oestrus. The rationale behind using magnesium chloride in this context is based on its potential role in muscle relaxation and pain relief.

Magnesium plays a crucial role in muscle function and relaxation. It acts as a natural calcium antagonist, meaning it helps counterbalance the effects of calcium, which is involved in muscle contraction.

During heat stress or oestrus, mares may experience increased uterine and abdominal muscle contractions, leading to discomfort and pain. Magnesium chloride supplementation can promote muscle relaxation, potentially reducing cramping and spasms.

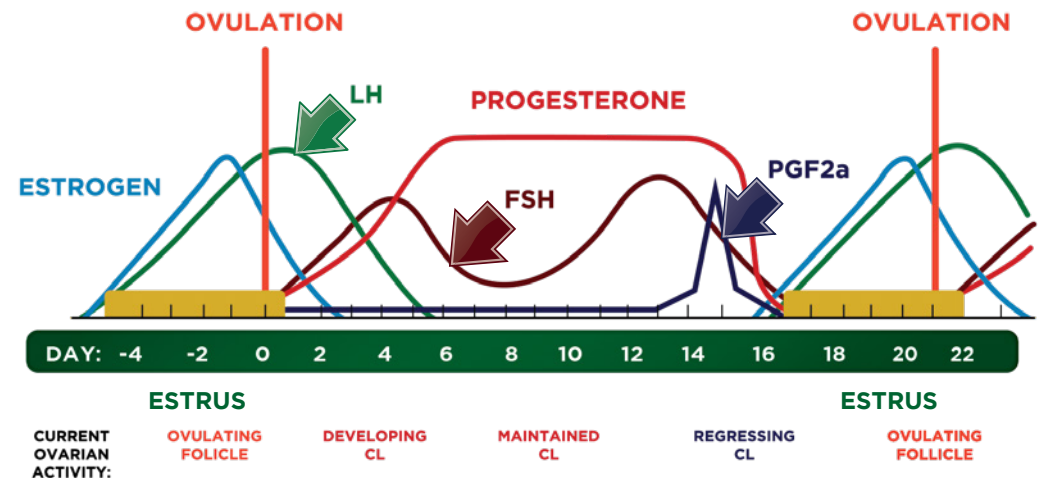
C. BONE WEAKENING AND CRAMPS

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A Brief Sequential overview of the Regular Estrous Cycle



D. FLUID RETENTION AND OEDEMA

Bearberry contains compounds like arbutin that have diuretic properties, meaning they promote increased urine production. Diuretics can be beneficial for reducing fluid retention and alleviate mild oedema, which can occur due to hormonal fluctuations during oestrus, by increasing the excretion of excess fluids and electrolytes through the kidneys.



E. MOOD REGULATION

L-tryptophan supplementation is often considered for managing mood swings in mares during heat stress due to its potential to support serotonin production and promote emotional stability. Mares can experience behavioural changes and mood swings related to hormonal fluctuations during oestrus (heat), and L-tryptophan may help modulate these effects.

L-tryptophan is an essential amino acid that serves as a precursor for serotonin, a neurotransmitter involved in regulating mood and behaviour. Serotonin is known to have calming and mood-stabilizing effects.



By increasing serotonin levels in the brain, L-tryptophan supplementation may help mitigate mood swings associated with heat stress. Vitamin B6 acts as an important co-factor in the conversion of L-Tryptophan to Serotonin.



HORMONE BALANCER

Behavioural & Hormonal Balancer

HORMONE BALANCER is a complementary feed designed to be fed to mares to maintain normal behaviour and temperament, and to ensure that top performance is achieved, during the oestrus cycle.

The combination of ingredients has been carefully selected to be a nutritious blend of herbal extracts which promotes and aids the mare during season. The ingredients also act as a general supplement for the mare's hormonal system.

Instructions for Proper Use:

Mix well with the normal feed ration.

Loading Feed Rate: 60ml. per day

Maintenance Feed Rate : 30ml. per day

Do not feed during pregnancy, or for 60 days prior to coverng.

Composition:

Magnesium Chloride, Golden Syrup, Chaste Berry, Arctostaphylos uva ursi, Glycerine, Calcium Gluconate.

Additives

3a671 Vitamin D3

L-tryptophan

Vitamin B6

per 60ml

6,000iu

300mg

120mg

Analytical Constituents:

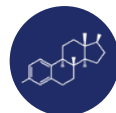
Crude Protein <0.2%, Crude Fat < 1.11%, Crude Fibre 3.5%, Crude Ash 4.7%, Sodium 0.03%, Moisture 49.6%.

Keep out of reach of children.

Store in a cool dry place away from direct sunlight.

PRESENTATION: **1L**

REGULATES THE 5 KEY PARAMETERS EXPERIENCED BY THE MARE DURING HEAT CYCLES.



Hormonal imbalance



Fluid retention and oedema



Bone weakening & cramps



Mood swings



Pain

