

## LSA CALORED (coated calcium chloride)

Highly concentrated micro encapsulated calcium chloride

**Coated calcium chloride** plays a crucial role in supporting the health and productivity of dairy cows, especially around calving time.

Specific for transition diets in dairy cows.

**Palatability:** The coating masks the bitter taste of calcium chloride, reducing feed refusal.

### **PREVENTS HYPOCALCEMIA (MILK FEVER)**

Boosts blood calcium levels during the transition period.

**HYPOCALEMIA** is strongly associated with:

- Retained fetal membranes
- 
- Metritis
- Mastitis
- Ketosis
- Displaced abomasum

### **ENHANCES METABOLIC HEALTH**

Coated calcium chloride is an anionic salt: it stimulates the cow's body to mobilize calcium from bones more efficiently.

### **IMPROVES COW PERFORMANCE**

Cows supplemented with coated calcium chloride show

- better dry matter intake
- higher peak milk yield, and more persistent lactation curves
- better fertility



## LSA CHOLINE 25 (coated choline)

**Highly concentrated micro encapsulated Choline chloride**

Coated Choline plays a crucial role in supporting the health and productivity of dairy cows, especially around calving time.

Choline is an essential nutrient that acts as:

- A **lipotropic agent** (prevents fat accumulation in the liver)
- A **methyl group donor** (via betaine)
- A component of **phosphatidylcholine**, needed to export fat from the liver as **VLDL**

### LSA CHOLINE 25

- Supports liver health & prevents fatty liver.
- Improves Dry Matter Intake and energy balance, reducing ketosis risks.
- Enhances milk yield and milk components.
- Supports immune and reproductive performance



## LSA GLUC 45 (coated glucose)

**Rumen-protected glucose**, is a source of energy which treats or prevents ketosis without creating any risk of rumen acidosis.

It is in powder form, easy to supply to animals. Coating avoids any risk of fermentation and improves flowability.

## LSA LYSINE 50 (coated lysine)

Lysine is a limiting amino acid in typical dairy cow diets, especially those based on corn and silage.

Supplementing with coated lysine improves milk protein content, particularly casein, which is vital for cheese production.

Studies show increased milk yield during mid and late lactation when cows are fed coated lysine alongside methionine

The coating protects lysine from being degraded in the rumen, allowing it to reach the small intestine where it can be absorbed.

## LSA METHIONINE 50 (coated methionine)

**Methionine is often the first limiting amino acid in dairy diets, especially those based on corn and soybean meal.**

**LSA METHIONINE 50** consists of solid microcapsules or microspheres obtained by spray cooling microencapsulation technology.

This technology gives the product high fluidity, flowability, absence of dust and high miscibility with feed, mineral feed and premixes.

Microencapsulation allows a controlled release of the active ingredient in the small intestine.

**LSA METHIONINE 50** is stable even after the pelletization process.



## LSA NIACIN 50 (coated niacin)

**Niacin promotes vasodilation, improving blood flow and heat dissipation during hot weather.**

**Reduces respiration rate and rectal temperature, helping cows stay cooler.**

**Niacin inhibits excessive fat mobilization from adipose tissue, resulting in decreased levels of NEFA and BHBA and to lower risk of clinical and subclinical ketosis**

**Microencapsulation allows a controlled release of the active ingredient in the small intestine.**

**LSA NIACIN 50 is stable even after the pelletization process.**

