

ALBO LYSINE 50 (coated)

- Application:** Highly concentrated rumen protected Microincapsulated Lysine
- Activity:** **ALBO LYSINE 50** contains min. 50 % Lysine from Lysine HCl. The coating is made from a composition of fatty acids and fats of vegetable origin (approx. 60 % fat per ether extract), calcium carbonate and magnesium carbonate
- Benefits:** **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.
This ensures **efficient amino acid delivery**, improving the cow's ability to synthesize milk proteins without wasting nutrients
- Usage:** Dairy cows: 20-50 g / head per day.
Other ruminants: 100-250 g per 100 kg of complete feed.
- Loss on drying:** Max. 8,0 %
- Solubility:** insoluble in water
- Bulk density:** Approx. 0,7 g/cm
- Description:** The product consists of solid microcapsules or microspheres obtained by spray cooling microencapsulation technology. The microcapsules are solid, spheroidal and polynucleated with a diameter between 0.3 and 2 mm; which the active ingredient is dispersed in a lipid matrix.
This technology gives the product high fluidity, flowability, absence of dust and high miscibility with feed, mineral feed and premixes.
Microencapsulation provides protection from external agents and allows a controlled release of the active ingredient. In ruminants, the product allows a reduction in the loss of the active ingredient at rumen level, increasing its bioavailability.
The product maintains its qualitative characteristics even after the pelletization process.

ORGANOLEPTIC CHARACTERISTICS:

Characteristic	U.M.	Value	Method
Appearance	-	Micropills	Visual control
Colour	-	White - Beige	Visual control
Odour	-	Typical	F.U. IX Ed. Vol.1

PHYSICAL DATA:

Character	U.M.	Min value	Method
Sieve analysis	µm	$850 \leq 70\% < 2.000$	ALB0511

ASSAY:

Analytical values	U.M.	Optimal value	Min	Max	Method
L-Lysine HCl	%	50,0	47,5	52,5	ALB0601

UNDESIRABLE SUBSTANCES:

Heavy metals	U.M.	Typical value	Max value	Reference
Pb (lead)	mg/kg	< 0,5	200	Law limit
Cd (cadmium)	mg/kg	< 0,1	15	Law limit
Hg (mercury)	mg/kg	< 0,02	0,1	Internal limit
As (arsenic)	mg/kg	< 0,5	2	Internal limit

Dioxin, furan and PCB	U.M.	Max value	Reference
PCDD + PCDF	ng OMS-PCDD/FTEQ/kg	1 (0,5 action level)	Law limit
PCDD + PCDF + PCB Dioxin like	ng OMS-PCDD/FTEQ/kg	1,5	Law limit
PCB Dioxin like	ng OMS-PCDD/FTEQ/kg	0,35 (action level)	Law limit
PCB Dioxin no like	mg/kg	10	Law limit

Microbiological	U.M.	Typical value	Max value	Reference
Total bacterial count	UFC/g	< 0,1	2.000	Internal limit
Molds and yeasts	UFC/g	< 0,1	500	Internal limit

Storage: Keep well closed, dry and cool.

Stability: guaranteed activity for 24 months after manufacture, if kept in the original, unopened packing and adequate storage conditions provided

Packaging: carton with PE inner bags, 25 kg net

Compiled Q.C

Approved Q.A.