

AminoShure™-XL

Precision Release Lysine

Utilizing Balchem's revolutionary X-technology, AminoShure™-XL *Precision Release Lysine* contains approximately 35% more metabolizable lysine than the leading competitor and is designed to consistently, reliably and economically meet the amino acid requirements of lactating dairy cattle, giving it a competitive edge over other lysine sources.

AminoShure-XL is the result of many years of research focused on delivering the essential benefits required for maximizing dairy cow productivity and profitability.

Guaranteed Minimum Analysis:

L-Lysine Monohydrochloride (Minimum).....65%

Typical Analysis:

L-Lysine Monohydrochloride.....67.5%

L-Lysine.....54.0%

Metabolizable Lysine.....34.6%

Application:

Feed to dry and lactating dairy cattle to help meet their lysine requirement. Supplemental lysine is required to create diets that provide optimum levels of metabolizable lysine for increased production of milk and milk components.

Ingredients:

L-Lysine Monohydrochloride, Hydrogenated Vegetable Oil

Feeding Recommendation:

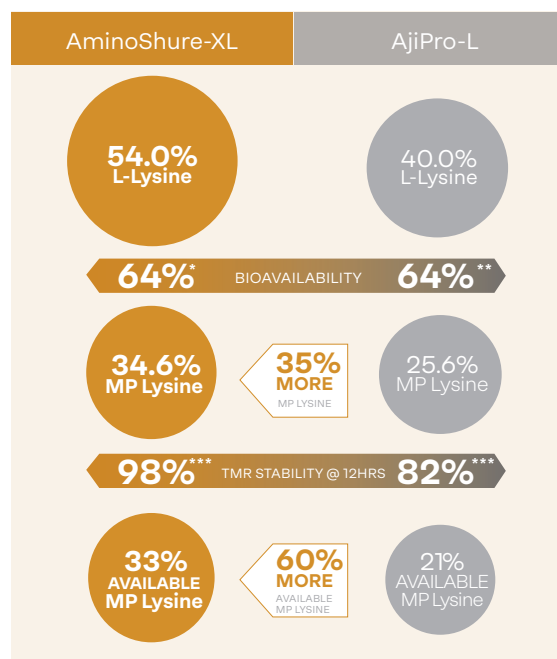
Feed 15-80 g/cow/day of AminoShure-XL to meet the cow's MP lysine requirement for increased milk production and components.

Packaging:

25 kg poly-lined bags

Recommended Storage:

Keep dry in sealed bags. Store below 50°C. Recommended storage temperature is 10-32°C.



*Stable Isotope method, Fernandes et al., 2024

**The bioavailability parameters are based on each manufacturer's bioavailability claims and content declarations.

***Estes et al., 2024



AMINOSHURE™-XL PRECISION RELEASE LYSINE

Benefits:

AminoShure™-XL represents more than a decade of dedicated research aimed at maximizing dairy cow productivity and profitability. The result is a new and improved AminoShure-XL that contains approximately 35% more metabolizable lysine than the leading competitor.

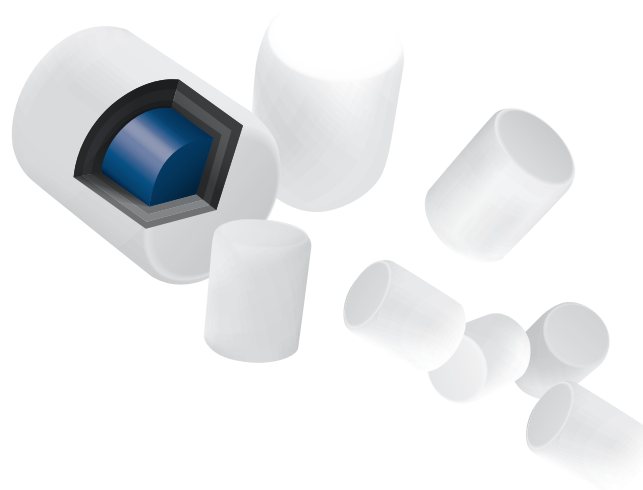
- **Consistent** – AminoShure-XL uses Balchem's X-technology to deliver a consistent supply of MP lysine to the cow, effectively solving the issue of inconsistency associated with other sources of lysine.
- **Reliable** – AminoShure-XL adheres to the highest quality standards and developmental protocols, ensuring exceptional performance and reliability.
- **Cost-Effective** – AminoShure-XL delivers superior levels of metabolizable lysine, providing a consistent, reliable, and more affordable source of lysine. It reduces ration costs and variability while boosting cow productivity, effectively replacing other lysine sources in dairy diets for greater, more consistent economic returns.

Economics:

A recent meta-analysis¹ showed that feeding rumen-protected lysine can deliver up to:

- +1.8 kg/cow/day more milk
- +2.5 kg/cow/day more Fat-Corrected milk
- +2.4 kg/cow/day more Energy-Corrected milk
- +100 g/cow/day more milk fat yield
- Improved feed efficiency and reduced nitrogen excretion

¹Arshad et al., 2024



About Balchem:

Balchem Animal Nutrition & Health is the global leader in choline production, chelation and encapsulation technology. With a growing portfolio of nutrition products and a dedication to innovation and industry sustainability, Balchem is leading the charge to meet the nutritional needs of ruminants, monogastrics and companion animals. The company consists of three business segments: Human Nutrition & Health; Animal Nutrition & Health; and Specialty Products. Balchem employs approximately 1,400 people worldwide who are engaged in diverse activities, committed to developing the company into global market leadership positions.



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