

NEW AminoShure®-L

Precision Release Lysine

A Cost-effective Alternative to Blood Meal

New AminoShure-L is a more consistent and cost-effective replacement for metabolizable protein (MP) lysine from blood meal, giving nutritionists greater flexibility to create diets that provide optimum levels of high quality MP, resulting in improved performance and potentially lower ration costs. As protein utilization efficiency improves, due in part to amino acid balancing, nutritionists may be able to reduce the need to feed excess dietary MP and potentially reduce excess nitrogen excretion into the environment.

When balancing for the precise levels of amino acids, nutritionists must have a reliable source of amino acids that can consistently deliver the exact amount to meet the nutritional needs of the dairy cow. Unpredictable blood meal quality can severely impact the level of bioavailable amino acids in the diet, reduce the response to amino acid balancing, and lower profitability.

Chart 1 Illustrates the impact blood meal quality can have on amino acid delivery. Though no one expects to purchase poor quality blood meal, delivered MP-lysine could be less than half of the expected levels.

Chart 1: Blood Meal MP-Lysine Quality Comparison

Blood Meal Quality	DM, %	CP, % of DM	RUP, % of CP	ID ¹ , % of RUP	Lys ² , % of CP	MP-Lys, % as-fed
Poor	90.0%	93.0%	81.0%	40.0%	9.0%	2.4%
Average	90.0%	93.0%	81.0%	65.0%	9.0%	4.0%
High	90.0%	93.0%	81.0%	90.0%	9.0%	5.5%

¹ ID = Intestinal Digestibility

² Lys = Lysine

With consistent, reliable, high quality lysine and a competitive price, New AminoShure-L can now effectively replace MP-lysine from blood meal in the diet, reducing variability in both ration cost and quality. Chart 2 compares the cost of 0.25 lb (114 gm) of blood meal, at 3 different price points, with the cost of 19 gm of AminoShure-L, which contains an equivalent amount of MP-lysine.

Continued on next page

Chart 2: Cost of replacing 0.25 lb (114 gm) of high quality blood meal with AminoShure-L

	\$/ton Manufacturers Suggested Retail Price	As-fed feeding rate (gm)	Lysine, % of DM	MP-Lys, % as-fed	MP-Lysine (gm)	Manufacturers Suggested Retail Price \$/head/day
Blood Meal	1,200	114	8.4%	5.5% ¹	6.2	0.15
	1,000	114	8.4%	5.5% ¹	6.2	0.13
	800	114	8.4%	5.5% ¹	6.2	0.10
AminoShure-L	5,500	19	52.0%	33.0% ²	6.2	0.11

¹ 90% DM, 93% CP, 81% RUP, 90% intestinal digestibility, 9% lysine as % of CP

² 99% DM, 52% CP, 80% RUP, 80% intestinal digestibility, 100% lysine as % of CP

AminoShure-L has always been a logical choice to replace dietary MP-lysine from a reliability, quality, and performance perspective and now, with a price per unit of MP-lysine that's less than blood meal, it's the only choice you need.

Sharing the Benefit

As part of the commitment to precision feeding advancements and to the dairy industry, Balchem's innovations will be realized as savings and improved performance to the dairy producer, making amino acid balancing more cost-effective for the entire industry.

About Balchem

For more than 40 years, Balchem has perfected the art of delivering nutrients to specific locations under many different environmental conditions. Today this technology protects more than 140 different products across human, animal and industrial applications.

Protect your entire nutrient investment with Shure Technology from Balchem.

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