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PRODUCT DATA SHEET

L-Valine [Feed Grade, 96.5%]

L-VALINE: AN INDISPENSABLE AMINO ACID FOR GROWTH PERFORMANCE AND YOUR BOTTOM LINE

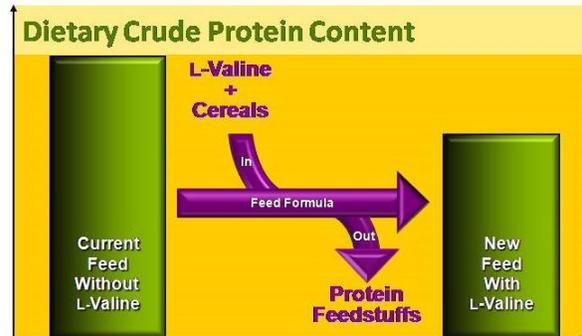
Through a series of trials, AJINOMOTO ANIMAL NUTRITION EUROPE has observed that piglet performance is significantly improved when diets are balanced with L-Valine (Figure 1). For piglets, the optimum ratio of digestible Valine-to-Lysine is 70% for optimum growth. Though Valine is also limiting for broilers, the optimum recommended ratio between digestible Valine and lysine is 77%.

FIGURE 1

SID Val:Lys	ADG Improvement	FCR Improvement
From 61 to 70%	+14%	-7%
From 64 to 70%	+7%	-4%

Effect of dietary Valine level (expressed as digestible Valine:Lysine ratio) in piglets. Average of 5 dose-response trials in piglets between 8 and 30 kg of bodyweight (AEL Technical Bulletin 33 - May 2009).

FIGURE 2



The commercial availability of L-Valine has allowed nutritionists to balance the amino acid content of swine and poultry feeds, meet the amino acid requirements of their high-yielding livestock without causing an imbalance in other amino acids, and significantly reduce the nitrogen excretion of their livestock through a reduction in dietary protein (Figure 2). Together, L-Valine provides the feed industry with a tool that can meet a variety of economical, nutritional and environmental targets:

- ✓ Lower feed cost
- ✓ Better dietary amino acid balance (less waste)
- ✓ Lower nitrogen excretion from animals into the environment

For animal feed only – not for human consumption