Milk Efficiency
Milk efficiency (ME) is a good indicator of ration profitability by comparing feed to milk yield. Many dairy cows have milk efficiency of 1.4–1.7. Yet, most could yield milk efficiency of 1.9 or greater. There are several management, environment and nutritional factors that can reduce milk efficiency of dairy cows. However, it is impossible to maximize milk efficiency if a dairy cow’s amino acid requirements are not met. Because milk efficiency impacts income over feed cost, maximizing milk efficiency is essential to increasing income over feed cost.

Using AjiPro®-L can improve income over feed cost.

Research Commitment
Ajinomoto continuously strives to improve AjiPro®-L quality and refines performance through year-round research collaboration with the following universities and research institutes:
→ Penn State University
→ University of Illinois
→ University of Wisconsin
→ University of Minnesota
→ University of New Hampshire
→ The William H. Miner Agricultural Research Institute, etc.

Learn about AjiPro®-L at www.AjiPro-L.com and contact technical representatives for more information.

Technical Representative
AjiProTech@ajusa.com

Sales Representative
AjiProSales@ajusa.com

GARCO Contact
Email: customerservice@gladwinaread.com
Phone: (800) 323-0878

Balancing amino acids increases income over feed cost
Blood meal variability

While blood meal is widely used in the dairy cow formulation to supplement lysine and other amino acids, it has a significant level of variability in bioavailability depending on quality, species, and processing plants. The blood meal’s variability greatly affects the cow’s lactating performance and income over feed cost.

As shown in the graph below, blood meal has a high degree of variability, whereas AjiPro®-L guarantees 7 times higher supply of metabolizable lysine in a consistent manner.

AjiPro®-L can play a significant role increasing income over feed cost in lactating dairy cows.

Failure to meet the lysine needs of dairy cows can compromise milk production and milk protein yield. This failure may result from the use of ingredients low in lysine or from ingredients where treatment has lowered the lysine availability.

Why formulate with AjiPro®-L?

AjiPro®-L helps overcome ration challenges for high-producing dairy cows thanks to:
- Very consistent, high-quality lysine
- High rumen bypass (80%)
- High intestinal digestibility (80%)
- High bioavailability (64%)

AjiPro®-L advantage

It is backed by extensive research and development (R&D) and the use of a proprietary matrix of L-Lysine HCL and vegetable oil. AjiPro®-L resists physical and microbial breakdown in the rumen.

TMR stability

AjiPro®-L meets all the mixing, handling, and storage requirements for use in total mixed rations (TMR) because:
- It is highly stable in hot and freezing environments
- It is very stable when mixed with other feedstuffs

As a result, AjiPro®-L enables precise ration formulation.

Lysine release comparison chart

<table>
<thead>
<tr>
<th>Time</th>
<th>Product A</th>
<th>AjiPro®-L</th>
</tr>
</thead>
<tbody>
<tr>
<td>0h</td>
<td>0.36</td>
<td>0.28</td>
</tr>
<tr>
<td>6h</td>
<td>57.74</td>
<td>0.76</td>
</tr>
<tr>
<td>18h</td>
<td>57.76</td>
<td>1.63</td>
</tr>
<tr>
<td>24h</td>
<td>55.13</td>
<td>1.61</td>
</tr>
</tbody>
</table>


Bioavailability (% CP) of 89 samples
Each bar represents the bioavailability of sample

Sample size: n=89 (porcine, ruminant, poultry, blend)
Survey period: 2015–2018
Analysis: Rock River Labs
Methodology: Modified Three Step Procedure (mTSP)