

## **Journal of Dairy Science Publishes Kemin Sponsored Meta-Analysis on Metabolizable Amino Acids Impact on Dairy Cattle Performance**

**DES MOINES, Iowa** (February 2, 2018) – In its latest edition, the effects of metabolizable amino acids on dairy cattle performance.”

Dr. Ken Griswold, Senior Technical Service Manager stated, “Kemin Industries funded this meta-analysis to help expand the knowledge base of amino acid nutrition and to gain understanding of its impact on dairy cattle performance. The findings of this study will also help the industry identify areas for further research.”

More than 190 peer-reviewed studies published between 1990 and 2014 were identified and reviewed by the authors. Based on 63 studies that met the inclusion criteria, the investigators arrived at three main outcomes including among essential amino acids, methionine had the largest effect on milk protein yield and percentage while histidine had a large effect on milk yield. Regarding lysine, authors concluded that additional research with greater treatment differences are needed to elicit consistent measurable effects on milk yield or composition.

The studies showed the difference in MP Lysine between control and treatment groups which was minimal (6.36 percent vs. 6.38 percent of MP). Further analysis indicated that an average 11-gram MP Lysine difference between treatments was associated to positive responses. This correlates well with Kemin conducted research in which measurable improvements in production were routinely observed with significant increases in MP Lysine levels.

In addition, most studies included in the meta-analysis were conducted before sources of rumen protected lysine were commercially available. Therefore, most of the treatment differences generated within an individual study were reliant upon combinations of feedstuffs rather than by use of consistent, concentrated, cost-effective sources of rumen protected lysine, which may have prevented the specific treatment from reaching optimal MP Lysine levels according to NRC 2001 recommendations.

Kemin is committed to improving amino acid nutrition in dairy cattle leading to benefits such as improved efficiency, increased profitability and reduced environmental impact. Kemin will help producers achieve these goals through continued research, new product development and strong partnerships. To learn more about the full line of rumen protected amino acids from Kemin, go to: [Kemin.com/hasitall](http://Kemin.com/hasitall)

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### **About Kemin Industries**

Kemin ([www.kemin.com](http://www.kemin.com)) has been dedicated to using applied science to improve the quality of life for over half a century. As a global company touching 3.8 billion people every day with its products, Kemin is committed to improving the quality, safety and efficacy of food, feed and health-related products to feed a growing population and be a resource for others in need.

Committed to feed and food safety, Kemin maintains top-of-the-line manufacturing facilities where over 500 specialty ingredients are made for humans and animals in the global feed and food industries, as well as the health, nutrition and beauty markets. The company provides product solutions and options to customers in more than 120 countries.

A privately held, family owned and operated company, Kemin has more than 2,500 global employees and operates in 90 countries including manufacturing facilities in Belgium, Brazil, China, India, Italy, Russia, Singapore, South Africa and the United States.

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