

News Release - Effective Immediately

Research Demonstrates Benefits of LACTOMACE® in Lactating Dairy Cattle

MENOMONIE, WI, March 5, 2012 — New research from R&D LifeSciences, LLC, reveals that substantial positive production trends can be generated in lactating dairy cattle when the natural, non-drug feed additive LACTOMACE® is included in cow rations. LACTOMACE® contains enzymes and fermentation products of *Aspergillus oryzae*, *Trichoderma viride*, and *Bacillus subtilis* that help enhance the digestibility and utilization of feed components by dairy cattle, resulting in improved performance.

A 120-day, three-site research study conducted in the southwest United States involved 7,000 lactating Holstein cows managed under commercial dairy production conditions. Cow diets were supplemented with LACTOMACE® from August 2011 to December 2011 at either 5 gm/hd/d throughout the study, or at 5 gm/hd/d for 40 days and then at 8 gm/hd/d for the remainder of the study. Control cows were given no supplementation.

Results showed that LACTOMACE® supplementation generated substantial positive impacts on overall milk production, energy-corrected milk yield, and fat-corrected milk (FCM) yield compared to non-supplemented controls. Dry matter intake and milk-to-feed ratio were also favorably impacted by LACTOMACE®.

“LACTOMACE® supplementation clearly helped boost productivity of lactating dairy cattle and can help avoid production declines that might normally occur under heat-stress conditions,” said Dr. Dave Cook, director of technical services for R&D LifeSciences.

LACTOMACE® includes high concentrations of digestive enzymes to help break-down feed components like proteins, starches and cellulosic plant fiber. The comprehensive three-way LACTOMACE® ingredient combination helps optimize feed digestion in ruminants via natural stimulation of rumen fungi and bacteria, resulting in better carbohydrate availability and fiber digestibility that enhances productivity. The *Aspergillus oryzae* fungal cultures in LACTOMACE® can also moderate the physiological effects of heat exposure and other forms of stress by helping animals maintain dry matter intake. Furthermore, the *Trichoderma viride* component can help support enzyme production, maintain immune responses, and maintain production of nutrients or other growth factors beneficial to cattle.

“LACTOMACE® offers dairy managers a reliable, cost-effective, drug-free management tool that can help optimize herd productivity and profit potential,” Dr. Cook said.

About R&D LifeSciences

R&D LifeSciences (RDLS) is a science-based biotechnology pioneer that specializes in innovating, designing and marketing animal health and agricultural products. RDLS specializes in developing highly specific proprietary ingredients and formulations, mixing complex ingredients, custom-blending products, and reformulating off-patent feed ingredients and feed products to provide more cost-effective ingredient sources.

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