Vertellus is a world leader in vitamin B3 production and has produced niacin for animal nutrition for more than 30 years. NiaPro is an encapsulated feed additive form of niacin, which has been shown to be beneficial for cows in lactation, especially those in the transition period and in heat stress situations. In addition, research shows that added niacin is beneficial in reducing metabolic problems like ketosis during the dry period and early lactation.

Niacin supplementation can result in increased milk production and healthier cows. Uniformly coated and specially sized NiaPro particles are formulated to control early digestion in the rumen and deliver an effective dose of niacin to the intestine, producing optimal benefits. The coating is durable but digestible and breaks down fully in the intestine. NiaPro niacin is not wasted passing to the manure. The niacin helps cows better maintain healthy metabolism, manage stress, dissipate body heat and achieve overall health benefits.

**Recommended use**

- Feed NiaPro throughout transition and lactation.
- Supply NiaPro consistently before onset of heat stress conditions, particularly in the summer seasons or hot climates.
- 15g NiaPro per head per day for nutritional supplementation of cows in transition and lactation.
- 30g NiaPro per head per day during heat stress conditions.
- Use in accordance with applicable feed regulations.
Benefits of niacin for dairy
Niacin is an essential building block for the coenzymes NAD and NADP needed for normal metabolism and is also known to have lipid modifying and vasodilatory effects. Numerous research experiments have found that supplementation with dietary niacin can optimally benefit dairy cows. The effects of niacin identified in the studies' include:

• Niacin increased or tended to increase milk yield.
• Niacin improved energy use of cows postpartum and reduced indicators of metabolic diseases such as ketosis.
• Niacin reduced the peak of NEFA with subsequent benefits for feed intake.
• Niacin reduced plasma NEFA and tended to reduce liver triglyceride.
• Niacin improved indicators of heat stress in cows.

Product comparison

Figure 1: NiaPro™ Encapsulated Niacin
Uniformly coated and spherical.

Figure 2: Other Formulated Niacin
Irregular encapsulation with edges and peaks.

Vertellus NiaPro niacin
Controlled. Delivered.

Other formulated niacin

To achieve optimal overall dairy benefit, niacin availability must be controlled in the rumen and not over-protected and pass through to the manure. Testing shows that NiaPro is specifically formulated to control early digestion in the rumen, and consistently deliver niacin through complete digestion in the intestine.¹

Vertellus is a reliable, secure vitamin B3 supplier with global manufacturing and back integration to key raw materials. For more than 150 years, the company has built a reputation for quality products and customer responsiveness.

¹For more information contact a Vertellus representative. Study references available upon request.

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