Evaluation of the AminoMax Process Using the Cornell System

By Essi Evans, Ph.D.
Essi Evans Technical Advisory Services, Inc.

May, 2013

AminoMax is a blend of canola meal and soybean meal. The important feature of this technology is that incoming ingredients are analyzed on a continuous basis, and all ingredients are processed separately to attain the desired end point. Using this patented technology insures that AminoMax is consistent from load to load.

This study was conducted at Cornell University under the supervision of Dr. Debbie Ross. Recently, Cornell University developed a new procedure to evaluate proteins provided to dairy cattle (Ross et al., 2013). Samples of two of the primary protein sources, canola meal and soybean meal, were analyzed by the university laboratory. Four samples of each ingredient were submitted for analysis. Results are presented in the Table below.

Effects of the AminoMax process on rumen undegraded protein (RUP) and RUP digestibility:

Meal	Form	RUP, %	RUP Digestibility, %
Canola meal	Unprocessed	60.4	71.5
	Processed	80.5	82.2
Soybean meal	Unprocessed	55.2	89.4
	Processed	81.2	89.2

The results indicated that the rumen undegraded protein (RUP) content of both meals was substantially increased with the process. The results further indicated that there was no loss in RUP digestibility, and RUP digestibility was enhanced for canola meal by the AminoMax process.

Reference: Ross, D.A., M. Gutuerrez-Botero, and M. E. Van Amburgh. 2013. Development of an In Vitro intestinal digestibility assay for ruminant feeds. Proc. Cornell Nutr. Conf. P. 190-202.