



CUMBERLAND VALLEY ANALYTICAL SERVICES

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Farm: MIKS TREYD
Desc: BVMD TRANSIT-M
Submitter: NOVA, LABORATORY
Account: NOVA LABORATORY

Copies to: LAB NOVA LLC

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Rumen and Intestinal Digestibility Assay of Protein by Freeze Drying (Multi-Step Protein Evaluation)

DRY MATTER		% DM
Residue after oven drying		94.1
PROTEIN	% (as received)	% (dm basis)
Protein as nitrogen x 6.25 from Leco nitrogen combustion analysis	53.1	56.4
SOLUBLE PROTEIN	% CP	% DM
1 hour water solubility, filtered on 1.5 micron filter, as-received particle size	15.3	8.7
RUMEN DEGRADABLE PROTEIN	% CP	% DM
Total protein less rumen undegradable protein recovered by freeze drying	21.9	12.4
RUMEN UNDEGRADABLE PROTEIN	% CP	% DM
16 hour incubation in rumen fluid from high group TMR ration, as-received particle size, recovered by freeze drying	78.1	44
INTESTINAL DIGESTED PROTEIN	% CP	% DM
Protein that is rumen undegradable but digested in pepsin for 1 hour, then in trypsin, chymotrypsin, amylase, and lipase for 24 hours, as-received particle size	58.3	32.9
As percentage of Rumen Undegradable Protein	74.8%	
TOTAL TRACT DIGESTED PROTEIN	% CP	% DM
Total protein less intestinal undigested residue recovered by 1.5 micron filter	80.2	45.3
TOTAL TRACT UNDIGESTED PROTEIN	% CP	% DM
Intestinal undigested residue, recovered on 1.5 micron filter	19.8	11.1

Analysis performed by modified procedure of D. A. Ross and M. E. Van Amburgh. Rumen undegradable protein is determined on material recovered by freeze drying. Total tract undigested protein is based on material recovered on a 1.5 micron filter.



Cumberland Valley Analytical Services, Inc.



4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

