



# CUMBERLAND VALLEY ANALYTICAL SERVICES

Laboratory services for agriculture ... from the field to the feed bunk.

**Farm:** UBM FEED KFT  
**Desc:** 1- 174990 SOYPROFAT  
**Submitter:** GALAMB, ESZTER  
**Account:** UBM FEED LTD.

**Copies to:** RUMINANT TEAM AT UBM FEED LTD  
**Lab ID:** 24280 215  
**Sampled:** 06/18/2018  
**Arrived:** 06/21/2018  
**Completed:** 07/09/2018  
**Reported:** 07/11/2018

## Rumen and Intestinal Digestibility Assay of Protein (Multi-Step Protein Evaluation)

DRY MATTER		% DM
Residue from 2 hour 135 degree centigrade treatment		94.2
PROTEIN	% (as received)	% (dm basis)
Protein as nitrogen x 6.25 from Leco nitrogen combustion analysis	43.3	46
SOLUBLE PROTEIN	% CP	% DM
1 hour water solubility, filtered on 1.5 um filter, as-received particle size	12	5.5
RUMEN DEGRADABLE PROTEIN	% CP	% DM
Total protein less Rumen Un-degradable Protein recovered on filter	54.6	25.1
RUMEN UN-DEGRADABLE PROTEIN	% CP	% DM
16 hour incubation in rumen fluid in buffer, high group TMR, as-received particle size recovered on filter	45.4	20.9
INTESTINAL DIGESTED PROTEIN	% CP	% DM
Protein that is rumen un-degradable but digested in pepsin for 1 hour, then in trypsin, chymotrypsin, amylase, and lipase for 24 hours, as-received particle size	38.4	17.7
As percentage of Rumen Undegradable Protein	84.7%	
TOTAL TRACT DIGESTED PROTEIN	% CP	% DM
Total protein less intestinal un-digested residue recovered by 1.5 micron filter	93	42.8
TOTAL TRACT UN-DIGESTED PROTEIN	% CP	% DM
Intestinal un-digested residue, recovered on 1.5 micron filter	7.0	3.2

Analysis performed by procedure of D. A. Ross and M. E. Van Amburgh; exception is that determination of rumen un-degradable protein is on material recovered by filter, not freeze drying. This may underestimate rumen undegradable protein by not capturing material, soluble or in suspension, in rumen fluid on some protein sources.



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