



CUMBERLAND VALLEY ANALYTICAL SERVICES

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Copies to: RUMINANT TEAM AT UBM FEED LTD Lab ID: **24280 215**
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Rumen and Intestinal Digestibility Assay of Protein (Multi-Step Protein Evaluation)

DRY MATTER

Residue from 2 hour 135 degree centigrade treatment % DM
94.2

PROTEIN

Protein as nitrogen x 6.25 from Leco nitrogen combustion analysis % (as received) % (dm basis)
43.3 46

SOLUBLE PROTEIN

1 hour water solubility, filtered on 1.5 um filter, as-received particle size % CP % DM
12 5.5

RUMEN DEGRADABLE PROTEIN

Total protein less Rumen Un-degradable Protein recovered on filter % CP % DM
54.6 25.1

RUMEN UN-DEGRADABLE PROTEIN

16 hour incubation in rumen fluid in buffer, high group TMR, as-received particle size recovered on filter % CP % DM
45.4 20.9

INTESTINAL DIGESTED PROTEIN

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 % CP % DM
38.4 17.7

As percentage of Rumen Undegradable Protein 84.7%

TOTAL TRACT DIGESTED PROTEIN

Total protein less intestinal un-digested residue recovered by 1.5 micron filter % CP % DM
93 42.8

TOTAL TRACT UN-DIGESTED PROTEIN

Intestinal un-digested residue, recovered on 1.5 micron filter % CP % DM
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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