

# SPECTRUM



## SPECIFICATIONS



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ANIMAL NUTRITION

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Standard Analysis	% DM
Moisture	7.6
Dry Matter	92.4
Nitrogen	12.6
Crude Protein	78.7
Soluble Protein	32.8
Ammonia	0.0
NDIP	10.3
ADIP	10.3
Crude Fiber	2.0
ADF	2.9
NDF	7.5
Lignin	0.5
Total VFA	0.0
Lactic	0.0
Acetic	0.0
Sugar	1.3
Starch	0.6
Soluble Fiber	1.5
NFC	3.4

Protein Bioavailability	% DM
RUP % CP	91.0
RUPd % RUP	85.6
dRUP % DM	61.3
dRUP-Lys % DM	4.9
dRUP-Met % DM	3.4
dRUP-EAA % DM	34.5

Macro Mineral	% DM
Ash	6.9
Calcium	1.1
Phosphorus	0.7
Magnesium	0.1
Potassium	0.5
Sulfur	0.6
Sodium	0.3
Chloride	0.4

Trace Mineral	ppm
Iron	1,663
Manganese	9.3
Zinc	48
Copper	9.0

Fatty Acids	% DM
Fat	3.5
TFA	3.4
Glycerol	0.1
Pigment	0.0
C12:0	0.0
C14:0	0.0
C16:0	0.8
C16:1	0.0
C18:0	0.5
C18:1T	0.0
C18:1C	0.9
C18:2	1.0
C18:3	0.0
Other	0.1
Fat Type	1.9
Lipolysis Rate	156.6

Pool	% DM	Rate	Int dig
CHO A1	-	-	-
CHO A4	1.28	40.00	100.0
CHO B1	0.60	17.00	75.0
CHO B2	1.52	30.00	75.0
CHO B3	6.26	7.00	20.0
CHO C	1.27	-	-
PRO A1	-	-	-
PRO A2	32.76	1.67	100.0
PRO B1	35.59	0.70	100.0
PRO B2	-	-	-
PRO C	10.31	-	-

Amino Acids	Product		Model Specifications <sup>1</sup>	
	% DM	% of CP	% DM	% of CP
Arginine	3.2	4.0	3.0	3.9
Histidine	4.3	5.4	4.6	5.8
Isoleucine	0.8	1.0	0.6	0.8
Leucine	9.7	12.4	10.1	12.8
Lysine	6.0	7.6	6.3	8.0
Methionine	3.9	4.9	4.3	5.5
Phenylalanine	4.9	6.2	5.2	6.6
Threonine	2.7	3.5	2.8	3.6
Tryptophan	0.9	1.1	0.9	1.2
Valine	6.0	7.7	6.3	8.1
EAA	42.4	53.9	44.2	56.3

<sup>1</sup>When a feed component of a dairy ration consists of a blend of feed ingredients differing in rumen undegradable protein and/or post-ruminal protein digestibility, the amino acids of the resulting mixture differ in their ruminal degradability and post ruminal digestibility. Most ration formulation software allow only a single, common set of parameters to characterize ruminal degradability and post ruminal digestibility of all essential amino acids; one cannot enter parameters specific to each amino acid. Therefore, entering the amino acid profile of the whole protein of a feed mixture results in erroneous values of its metabolizable amino acid content. To circumvent this problem, users should use the 'model specifications' amino acid values in software such as CNCPS/NASEM so that the correct supply of each metabolizable amino acid is calculated correctly.