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Sample Date: 2023-12-12
Sample No.: 003-2312-1308961

To: Steffes Auctioneers
 24400 MN Hwy 22 South
 Litchfield, MN 55355

Account No.: 953 (0)
Sampled By: Steffes Auctioneers
Sampled For: STEFFES AUCTION

Product: 3734

Test Mode: N9
Feed Type: Hay - Legume
Sub Type: Alfalfa

Moisture	12.32%		
Dry Matter	87.68%		
		Dry Basis	90% Range*
Crude Protein	%DM	16.73	15.4 - 24.0
AD-ICP	%DM	1.34	1.08 - 2.13
ND-ICP w/SS	%DM	2.73	1.63 - 4.06
Protein Sol.	%CP	35.33	27.5 - 47.1
Total Amino Acids	%DM	11.85	11.2 - 20.2
Total Amino Acids	%CP	70.83	66.4 - 89.8
Lysine	%CP	4.24	3.61 - 5.16
Methionine	%CP	1.61	1.42 - 2.11
Isoleucine	%CP	2.87	2.48 - 3.77
Leucine	%CP	5.56	4.88 - 7.39
Histidine	%CP	1.61	1.43 - 1.88
ADF	%DM	37.58	25.5 - 41.8
aNDF	%DM	47.54	31.9 - 51.8
aNDFom	%DM	46.51	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	8.36	5.84 - 9.64
Lignin	%NDFom	17.97	
Lignin input (uNDF/2.4)	%DM	11.37	
NDFD12	%NDFom	25.61	28.9 - 47.1
NDFD 24	%NDFom	34.21	28.2 - 45.5
NDFD 30	%NDFom	35.52	31.3 - 48.1
NDFD 48	%NDFom	37.69	32.6 - 49.4
NDFD240	%NDFom	41.32	41.5 - 61.9
uNDFom12	%DM	34.60	16.6 - 30.2
uNDFom24	%DM	30.60	17.4 - 31.1
uNDFom30	%DM	29.99	16.5 - 29.5
uNDFom48	%DM	28.98	15.6 - 28.6
uNDFom240	%DM	27.29	13.0 - 27.8
Starch	%DM	2.31	0.28 - 3.74
Fat (EE)	%DM	2.11	1.77 - 3.35
TFA (fat)	%DM	1.04	0.81 - 2.33
16:0 Palmitic	%TFA	25.00	23.6 - 41.7
18:0 Stearic	%TFA	5.77	4.46 - 8.70
18:1 Oleic	%TFA	8.65	3.42 - 11.5
18:2 Linoleic	%TFA	21.15	12.5 - 22.7

18:3 Linolenic	%TFA	37.50	20.0 - 47.4
Ash	%DM	8.21	9.15 - 13.8
Calcium	%DM	1.11	1.19 - 1.84
Phosphorus	%DM	0.31	0.23 - 0.39
Magnesium	%DM	0.27	0.25 - 0.41
Potassium	%DM	2.60	1.83 - 3.36
Sulfur	%DM	0.18	0.17 - 0.33
Chloride	%DM	0.37	0.16 - 1.13
Sugar (ESC)	%DM	4.67	2.71 - 9.16
Sugar (WSC)	%DM	7.47	3.32 - 10.2

*Alfalfa hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	16.73		
NFC	%DM	29.24		
NSC	%DM	9.78		
RFV		116.49		
RFQ		101.91		
NDF kd rate Van Amb	%/hr	3.48		
NDF kd rate MIR_P1	%/hr	7.07		
		ADF	OARDC	MLK 2013
TDN	%DM	59.63	56.88	55.80
Nel 3x	Mcal/cwt	61.03	57.89	57.48
Neg	Mcal/cwt	31.42	31.90	30.63
Nem	Mcal/cwt	57.24	57.77	56.38
Milk per ton	lbs/ton			2375