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Sample Date: 2023-12-12
Sample No.: 003-2312-1308948

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

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

Product: 3722

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

Moisture	15.92%		
Dry Matter	84.08%		
		Dry Basis	90% Range*
Crude Protein	%DM	20.53	15.4 - 24.0
AD-ICP	%DM	1.84	1.08 - 2.13
ND-ICP w/SS	%DM	4.32	1.63 - 4.06
Protein Sol.	%CP	30.49	27.5 - 47.1
Total Amino Acids	%DM	15.99	11.2 - 20.2
Total Amino Acids	%CP	77.89	66.4 - 89.8
Lysine	%CP	4.72	3.61 - 5.16
Methionine	%CP	1.75	1.42 - 2.11
Isoleucine	%CP	3.41	2.48 - 3.77
Leucine	%CP	6.67	4.88 - 7.39
Histidine	%CP	1.41	1.43 - 1.88
ADF	%DM	33.27	25.5 - 41.8
aNDF	%DM	43.54	31.9 - 51.8
aNDFom	%DM	41.35	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	7.90	5.84 - 9.64
Lignin	%NDFom	19.11	
Lignin input (uNDF/2.4)	%DM	8.97	
NDFD12	%NDFom	33.93	28.9 - 47.1
NDFD 24	%NDFom	41.55	28.2 - 45.5
NDFD 30	%NDFom	42.73	31.3 - 48.1
NDFD 48	%NDFom	44.64	32.6 - 49.4
NDFD240	%NDFom	47.93	41.5 - 61.9
uNDFom12	%DM	27.32	16.6 - 30.2
uNDFom24	%DM	24.17	17.4 - 31.1
uNDFom30	%DM	23.68	16.5 - 29.5
uNDFom48	%DM	22.89	15.6 - 28.6
uNDFom240	%DM	21.53	13.0 - 27.8
Starch	%DM	1.24	0.28 - 3.74
Fat (EE)	%DM	2.38	1.77 - 3.35
TFA (fat)	%DM	1.14	0.81 - 2.33
16:0 Palmitic	%TFA	25.44	23.6 - 41.7
18:0 Stearic	%TFA	5.26	4.46 - 8.70
18:1 Oleic	%TFA	7.02	3.42 - 11.5
18:2 Linoleic	%TFA	18.42	12.5 - 22.7

18:3 Linolenic	%TFA	42.11	20.0 - 47.4
Ash	%DM	11.21	9.15 - 13.8
Calcium	%DM	1.23	1.19 - 1.84
Phosphorus	%DM	0.34	0.23 - 0.39
Magnesium	%DM	0.34	0.25 - 0.41
Potassium	%DM	2.69	1.83 - 3.36
Sulfur	%DM	0.24	0.17 - 0.33
Chloride	%DM	0.40	0.16 - 1.13
Sugar (ESC)	%DM	4.58	2.71 - 9.16
Sugar (WSC)	%DM	7.19	3.32 - 10.2

*Alfalfa hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	20.53		
NFC	%DM	29.09		
NSC	%DM	8.43		
RFV		134.75		
RFQ		128.44		
NDF kd rate Van Amb	%/hr	4.87		
NDF kd rate MIR_P1	%/hr	8.05		
		ADF	OARDC	MLK 2013
TDN	%DM	62.98	56.48	59.85
Nel 3x	Mcal/cwt	64.76	57.44	59.96
Neg	Mcal/cwt	34.40	32.81	37.45
Nem	Mcal/cwt	60.51	58.76	63.88
Milk per ton	lbs/ton			2607