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Sample Date: 2023-12-12
Sample No.: 003-2312-1308962

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

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

Product: 3735

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

Moisture	14.89%		
Dry Matter	85.11%		
		Dry Basis	90% Range*
Crude Protein	%DM	21.38	15.4 - 24.0
AD-ICP	%DM	1.47	1.08 - 2.13
ND-ICP w/SS	%DM	3.31	1.63 - 4.06
Protein Sol.	%CP	36.20	27.5 - 47.1
Total Amino Acids	%DM	16.35	11.2 - 20.2
Total Amino Acids	%CP	76.47	66.4 - 89.8
Lysine	%CP	4.58	3.61 - 5.16
Methionine	%CP	1.73	1.42 - 2.11
Isoleucine	%CP	3.37	2.48 - 3.77
Leucine	%CP	6.64	4.88 - 7.39
Histidine	%CP	1.59	1.43 - 1.88
ADF	%DM	31.60	25.5 - 41.8
aNDF	%DM	40.75	31.9 - 51.8
aNDFom	%DM	39.60	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	7.68	5.84 - 9.64
Lignin	%NDFom	19.39	
Lignin input (uNDF/2.4)	%DM	9.17	
NDFD12	%NDFom	31.34	28.9 - 47.1
NDFD 24	%NDFom	37.95	28.2 - 45.5
NDFD 30	%NDFom	39.14	31.3 - 48.1
NDFD 48	%NDFom	41.11	32.6 - 49.4
NDFD240	%NDFom	44.44	41.5 - 61.9
uNDFom12	%DM	27.19	16.6 - 30.2
uNDFom24	%DM	24.57	17.4 - 31.1
uNDFom30	%DM	24.10	16.5 - 29.5
uNDFom48	%DM	23.32	15.6 - 28.6
uNDFom240	%DM	22.00	13.0 - 27.8
Starch	%DM	1.24	0.28 - 3.74
Fat (EE)	%DM	1.86	1.77 - 3.35
TFA (fat)	%DM	0.99	0.81 - 2.33
16:0 Palmitic	%TFA	30.30	23.6 - 41.7
18:0 Stearic	%TFA	6.06	4.46 - 8.70
18:1 Oleic	%TFA	7.07	3.42 - 11.5
18:2 Linoleic	%TFA	19.19	12.5 - 22.7

18:3 Linolenic	%TFA	35.35	20.0 - 47.4
Ash	%DM	9.57	9.15 - 13.8
Calcium	%DM	1.33	1.19 - 1.84
Phosphorus	%DM	0.32	0.23 - 0.39
Magnesium	%DM	0.35	0.25 - 0.41
Potassium	%DM	3.07	1.83 - 3.36
Sulfur	%DM	0.25	0.17 - 0.33
Chloride	%DM	0.29	0.16 - 1.13
Sugar (ESC)	%DM	4.38	2.71 - 9.16
Sugar (WSC)	%DM	7.25	3.32 - 10.2

*Alfalfa hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	21.38			
NFC	%DM	30.77			
NSC	%DM	8.49			
RFV		146.50			
RFQ		135.04			
NDF kd rate Van Amb	%/hr	4.35			
NDF kd rate MIR_P1	%/hr	7.70			
			ADF	OARDC	MLK 2013
TDN	%DM	64.28	58.84	60.20	
Nel 3x	Mcal/cwt	66.21	60.07	61.77	
Neg	Mcal/cwt	35.91	36.40	38.22	
Nem	Mcal/cwt	62.17	62.72	64.74	
Milk per ton	lbs/ton				2690