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Sample Date: 2023-12-12
Sample No.: 003-2312-1308953

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

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

Product: 3724

Test Mode: N9
Feed Type: Hay - Grass
Sub Type: Mixed

Moisture	9.83%		
Dry Matter	90.17%		
		Dry Basis	90% Range*
Crude Protein	%DM	14.77	4.95 - 16.5
AD-ICP	%DM	1.50	0.62 - 1.79
ND-ICP w/SS	%DM	4.84	1.29 - 4.68
Protein Sol.	%CP	25.80	8.61 - 48.9
Total Amino Acids	%DM	11.07	2.58 - 15.2
Total Amino Acids	%CP	74.95	45.0 - 80.7
Lysine	%CP	3.86	2.37 - 4.60
Methionine	%CP	1.42	0.65 - 1.72
Isoleucine	%CP	3.39	2.08 - 3.75
Leucine	%CP	6.50	4.58 - 7.86
Histidine	%CP	1.42	1.02 - 1.71
ADF	%DM	38.59	31.8 - 50.2
aNDF	%DM	59.29	48.2 - 72.7
aNDFom	%DM	56.00	43.0 - 68.9
Lignin (Sulfuric Acid)	%DM	5.50	3.94 - 9.40
Lignin	%NDFom	9.82	
Lignin input (uNDF/2.4)	%DM	6.55	
NDFD12	%NDFom	27.73	21.4 - 45.1
NDFD 24	%NDFom	46.52	31.1 - 59.0
NDFD 30	%NDFom	50.84	36.2 - 65.5
NDFD 48	%NDFom	58.61	40.6 - 67.4
NDFD240	%NDFom	71.93	52.4 - 80.6
uNDFom12	%DM	40.47	24.8 - 48.5
uNDFom24	%DM	29.95	18.7 - 43.4
uNDFom30	%DM	27.53	14.7 - 40.9
uNDFom48	%DM	23.18	12.8 - 35.9
uNDFom240	%DM	15.72	10.3 - 30.4
Starch	%DM	0.86	0.25 - 7.32
Fat (EE)	%DM	3.07	1.58 - 3.71
TFA (fat)	%DM	1.30	0.49 - 2.17
16:0 Palmitic	%TFA	19.23	18.1 - 36.8
18:0 Stearic	%TFA	3.85	3.37 - 10.8
18:1 Oleic	%TFA	8.46	4.24 - 26.6
18:2 Linoleic	%TFA	15.38	3.64 - 26.4

18:3 Linolenic	%TFA	50.77	8.75 - 59.7
Ash	%DM	9.96	6.12 - 13.0
Calcium	%DM	0.71	0.25 - 1.15
Phosphorus	%DM	0.33	0.11 - 0.35
Magnesium	%DM	0.26	0.12 - 0.33
Potassium	%DM	2.23	0.69 - 3.03
Sulfur	%DM	0.23	0.07 - 0.25
Chloride	%DM	0.29	0.07 - 0.89
Sugar (ESC)	%DM	5.72	2.16 - 10.4
Sugar (WSC)	%DM	6.87	3.29 - 12.9

*Mixed grass hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	14.73		
NFC	%DM	21.81		
NSC	%DM	7.73		
RFV		92.14		
RFQ		123.11		
NDF kd rate Van Amb	%/hr	3.64		
NDF kd rate MIR_P1	%/hr	4.29		
		ADF	OARDC	MLK 2013
TDN	%DM	58.84	56.79	54.85
Nel 3x	Mcal/cwt	60.15	57.79	59.33
Neg	Mcal/cwt	28.62	30.87	28.57
Nem	Mcal/cwt	54.19	56.64	54.13
Milk per ton	lbs/ton			2497