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Sample Date: 2023-12-12
Sample No.: 003-2312-1308952

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

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

Product: 3727

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

Moisture	20.96%		
Dry Matter	79.04%		
		Dry Basis	90% Range*
Crude Protein	%DM	13.55	4.95 - 16.5
AD-ICP	%DM	2.05	0.62 - 1.79
ND-ICP w/SS	%DM	4.28	1.29 - 4.68
Protein Sol.	%CP	27.90	8.61 - 48.9
Total Amino Acids	%DM	8.58	2.58 - 15.2
Total Amino Acids	%CP	63.32	45.0 - 80.7
Lysine	%CP	2.95	2.37 - 4.60
Methionine	%CP	1.18	0.65 - 1.72
Isoleucine	%CP	2.73	2.08 - 3.75
Leucine	%CP	5.24	4.58 - 7.86
Histidine	%CP	1.18	1.02 - 1.71
ADF	%DM	43.95	31.8 - 50.2
aNDF	%DM	61.30	48.2 - 72.7
aNDFom	%DM	57.79	43.0 - 68.9
Lignin (Sulfuric Acid)	%DM	7.37	3.94 - 9.40
Lignin	%NDFom	12.75	
Lignin input (uNDF/2.4)	%DM	10.23	
NDFD12	%NDFom	13.83	21.4 - 45.1
NDFD 24	%NDFom	30.85	31.1 - 59.0
NDFD 30	%NDFom	34.92	36.2 - 65.5
NDFD 48	%NDFom	42.88	40.6 - 67.4
NDFD240	%NDFom	57.52	52.4 - 80.6
uNDFom12	%DM	49.80	24.8 - 48.5
uNDFom24	%DM	39.96	18.7 - 43.4
uNDFom30	%DM	37.61	14.7 - 40.9
uNDFom48	%DM	33.01	12.8 - 35.9
uNDFom240	%DM	24.55	10.3 - 30.4
Starch	%DM	1.80	0.25 - 7.32
Fat (EE)	%DM	2.15	1.58 - 3.71
TFA (fat)	%DM	0.87	0.49 - 2.17
16:0 Palmitic	%TFA	20.69	18.1 - 36.8
18:0 Stearic	%TFA	5.75	3.37 - 10.8
18:1 Oleic	%TFA	10.34	4.24 - 26.6
18:2 Linoleic	%TFA	14.94	3.64 - 26.4

18:3 Linolenic	%TFA	45.98	8.75 - 59.7
Ash	%DM	12.59	6.12 - 13.0
Calcium	%DM	0.77	0.25 - 1.15
Phosphorus	%DM	0.25	0.11 - 0.35
Magnesium	%DM	0.29	0.12 - 0.33
Potassium	%DM	1.86	0.69 - 3.03
Sulfur	%DM	0.24	0.07 - 0.25
Chloride	%DM	0.49	0.07 - 0.89
Sugar (ESC)	%DM	3.76	2.16 - 10.4
Sugar (WSC)	%DM	7.15	3.29 - 12.9

*Mixed grass hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	12.44		
NFC	%DM	18.48		
NSC	%DM	8.95		
RFV		83.05		
RFQ		78.78		
NDF kd rate Van Amb	%/hr	2.33		
NDF kd rate MIR_P1	%/hr	3.22		
		ADF	OARDC	MLK 2013
TDN	%DM	54.66	49.69	42.19
Nel 3x	Mcal/cwt	55.49	49.88	50.25
Neg	Mcal/cwt	27.39	20.30	10.03
Nem	Mcal/cwt	52.85	45.21	34.29
Milk per ton	lbs/ton			1726