



Dairyland Laboratories  
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**Sample Date:** 2023-12-12  
**Sample No.:** 003-2312-1309376

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

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

**Product:** 3755

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

Moisture	12.22%		
Dry Matter	87.78%		
		<b>Dry Basis</b>	<b>90% Range*</b>
Crude Protein	%DM	13.16	4.95 - 16.5
AD-ICP	%DM	1.01	0.62 - 1.79
ND-ICP w/SS	%DM	3.79	1.29 - 4.68
Protein Sol.	%CP	30.55	8.61 - 48.9
Total Amino Acids	%DM	9.86	2.58 - 15.2
Total Amino Acids	%CP	74.92	45.0 - 80.7
Lysine	%CP	4.18	2.37 - 4.60
Methionine	%CP	1.44	0.65 - 1.72
Isoleucine	%CP	3.50	2.08 - 3.75
Leucine	%CP	6.99	4.58 - 7.86
Histidine	%CP	1.52	1.02 - 1.71
ADF	%DM	37.38	31.8 - 50.2
aNDF	%DM	53.17	48.2 - 72.7
aNDFom	%DM	49.72	43.0 - 68.9
Lignin (Sulfuric Acid)	%DM	4.73	3.94 - 9.40
Lignin	%NDFom	9.51	
Lignin input (uNDF/2.4)	%DM	7.40	
NDFD12	%NDFom	22.99	21.4 - 45.1
NDFD 24	%NDFom	38.19	31.1 - 59.0
NDFD 30	%NDFom	42.52	36.2 - 65.5
NDFD 48	%NDFom	50.60	40.6 - 67.4
NDFD240	%NDFom	64.30	52.4 - 80.6
uNDFom12	%DM	38.29	24.8 - 48.5
uNDFom24	%DM	30.73	18.7 - 43.4
uNDFom30	%DM	28.58	14.7 - 40.9
uNDFom48	%DM	24.56	12.8 - 35.9
uNDFom240	%DM	17.75	10.3 - 30.4
Starch	%DM	1.43	0.25 - 7.32
Fat (EE)	%DM	3.04	1.58 - 3.71
TFA (fat)	%DM	1.52	0.49 - 2.17
16:0 Palmitic	%TFA	17.76	18.1 - 36.8
18:0 Stearic	%TFA	4.61	3.37 - 10.8
18:1 Oleic	%TFA	5.92	4.24 - 26.6
18:2 Linoleic	%TFA	13.82	3.64 - 26.4

18:3 Linolenic	%TFA	55.92	8.75 - 59.7
Ash	%DM	12.10	6.12 - 13.0
Calcium	%DM	0.57	0.25 - 1.15
Phosphorus	%DM	0.31	0.11 - 0.35
Magnesium	%DM	0.30	0.12 - 0.33
Potassium	%DM	2.76	0.69 - 3.03
Sulfur	%DM	0.26	0.07 - 0.25
Chloride	%DM	0.84	0.07 - 0.89
Sugar (ESC)	%DM	11.95	2.16 - 10.4
Sugar (WSC)	%DM	12.70	3.29 - 12.9

\*Mixed grass hay statistics provided for comparison.

**Calculations**

Adjusted Crude Protein	%DM	13.16		
NFC	%DM	26.29		
NSC	%DM	14.13		
RFV		104.73		
RFQ		118.82		
NDF kd rate Van Amb	%/hr	2.71		
NDF kd rate MIR_P1	%/hr	3.75		
		<b>ADF</b>	<b>OARDC</b>	<b>MLK 2013</b>
TDN	%DM	59.78	58.19	51.93
Nel 3x	Mcal/cwt	61.19	59.35	58.46
Neg	Mcal/cwt	30.57	32.27	23.93
Nem	Mcal/cwt	56.32	58.18	49.11
Milk per ton	lbs/ton			2349