



Dairyland Laboratories  
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**Sample Date:** 2023-12-12  
**Sample No.:** 003-2312-1308949

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

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

**Product:** 3723

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

Moisture	14.17%		
Dry Matter	85.83%		
		<b>Dry Basis</b>	<b>90% Range*</b>
Crude Protein	%DM	8.13	4.95 - 16.5
AD-ICP	%DM	1.04	0.62 - 1.79
ND-ICP w/SS	%DM	3.34	1.29 - 4.68
Protein Sol.	%CP	17.84	8.61 - 48.9
Total Amino Acids	%DM	5.89	2.58 - 15.2
Total Amino Acids	%CP	72.45	45.0 - 80.7
Lysine	%CP	4.30	2.37 - 4.60
Methionine	%CP	1.60	0.65 - 1.72
Isoleucine	%CP	3.32	2.08 - 3.75
Leucine	%CP	7.26	4.58 - 7.86
Histidine	%CP	1.48	1.02 - 1.71
ADF	%DM	41.11	31.8 - 50.2
aNDF	%DM	63.13	48.2 - 72.7
aNDFom	%DM	60.63	43.0 - 68.9
Lignin (Sulfuric Acid)	%DM	6.23	3.94 - 9.40
Lignin	%NDFom	10.28	
Lignin input (uNDF/2.4)	%DM	10.80	
NDFD12	%NDFom	15.49	21.4 - 45.1
NDFD 24	%NDFom	30.69	31.1 - 59.0
NDFD 30	%NDFom	34.75	36.2 - 65.5
NDFD 48	%NDFom	42.69	40.6 - 67.4
NDFD240	%NDFom	57.25	52.4 - 80.6
uNDFom12	%DM	51.24	24.8 - 48.5
uNDFom24	%DM	42.02	18.7 - 43.4
uNDFom30	%DM	39.56	14.7 - 40.9
uNDFom48	%DM	34.75	12.8 - 35.9
uNDFom240	%DM	25.92	10.3 - 30.4
Starch	%DM	4.38	0.25 - 7.32
Fat (EE)	%DM	2.13	1.58 - 3.71
TFA (fat)	%DM	0.87	0.49 - 2.17
16:0 Palmitic	%TFA	18.39	18.1 - 36.8
18:0 Stearic	%TFA	8.05	3.37 - 10.8
18:1 Oleic	%TFA	6.90	4.24 - 26.6
18:2 Linoleic	%TFA	10.34	3.64 - 26.4

18:3 Linolenic	%TFA	54.02	8.75 - 59.7
Ash	%DM	8.63	6.12 - 13.0
Calcium	%DM	0.50	0.25 - 1.15
Phosphorus	%DM	0.20	0.11 - 0.35
Magnesium	%DM	0.25	0.12 - 0.33
Potassium	%DM	1.57	0.69 - 3.03
Sulfur	%DM	0.16	0.07 - 0.25
Chloride	%DM	0.47	0.07 - 0.89
Sugar (ESC)	%DM	11.14	2.16 - 10.4
Sugar (WSC)	%DM	13.51	3.29 - 12.9

\*Mixed grass hay statistics provided for comparison.

**Calculations**

Adjusted Crude Protein	%DM	7.77		
NFC	%DM	24.08		
NSC	%DM	17.89		
RFV		83.78		
RFQ		90.13		
NDF kd rate Van Amb	%/hr	2.11		
NDF kd rate MIR_P1	%/hr	3.22		
		<b>ADF</b>	<b>OARDC</b>	<b>MLK 2013</b>
TDN	%DM	56.88	55.04	43.71
Nel 3x	Mcal/cwt	57.96	55.84	53.29
Neg	Mcal/cwt	24.81	25.74	9.80
Nem	Mcal/cwt	50.06	51.07	34.05
Milk per ton	lbs/ton			1920