



Dairyland Laboratories  
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**Sample Date:** 2023-12-12  
**Sample No.:** 003-2312-1309365

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

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

**Product:** 3744

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

Moisture	14.86%		
Dry Matter	85.14%		
		<b>Dry Basis</b>	<b>90% Range*</b>
Crude Protein	%DM	11.55	4.95 - 16.5
AD-ICP	%DM	1.05	0.62 - 1.79
ND-ICP w/SS	%DM	3.16	1.29 - 4.68
Protein Sol.	%CP	26.67	8.61 - 48.9
Total Amino Acids	%DM	7.84	2.58 - 15.2
Total Amino Acids	%CP	67.88	45.0 - 80.7
Lysine	%CP	3.55	2.37 - 4.60
Methionine	%CP	1.21	0.65 - 1.72
Isoleucine	%CP	3.12	2.08 - 3.75
Leucine	%CP	6.41	4.58 - 7.86
Histidine	%CP	1.39	1.02 - 1.71
ADF	%DM	39.56	31.8 - 50.2
aNDF	%DM	59.28	48.2 - 72.7
aNDFom	%DM	54.74	43.0 - 68.9
Lignin (Sulfuric Acid)	%DM	5.00	3.94 - 9.40
Lignin	%NDFom	9.13	
Lignin input (uNDF/2.4)	%DM	6.70	
NDFD12	%NDFom	28.43	21.4 - 45.1
NDFD 24	%NDFom	46.16	31.1 - 59.0
NDFD 30	%NDFom	50.44	36.2 - 65.5
NDFD 48	%NDFom	58.07	40.6 - 67.4
NDFD240	%NDFom	70.62	52.4 - 80.6
uNDFom12	%DM	39.18	24.8 - 48.5
uNDFom24	%DM	29.47	18.7 - 43.4
uNDFom30	%DM	27.13	14.7 - 40.9
uNDFom48	%DM	22.95	12.8 - 35.9
uNDFom240	%DM	16.08	10.3 - 30.4
Starch	%DM	2.79	0.25 - 7.32
Fat (EE)	%DM	3.01	1.58 - 3.71
TFA (fat)	%DM	1.31	0.49 - 2.17
16:0 Palmitic	%TFA	18.32	18.1 - 36.8
18:0 Stearic	%TFA	4.58	3.37 - 10.8
18:1 Oleic	%TFA	8.40	4.24 - 26.6
18:2 Linoleic	%TFA	19.08	3.64 - 26.4

18:3 Linolenic	%TFA	47.33	8.75 - 59.7
Ash	%DM	9.55	6.12 - 13.0
Calcium	%DM	0.37	0.25 - 1.15
Phosphorus	%DM	0.30	0.11 - 0.35
Magnesium	%DM	0.20	0.12 - 0.33
Potassium	%DM	2.57	0.69 - 3.03
Sulfur	%DM	0.20	0.07 - 0.25
Chloride	%DM	0.80	0.07 - 0.89
Sugar (ESC)	%DM	7.96	2.16 - 10.4
Sugar (WSC)	%DM	8.61	3.29 - 12.9

\*Mixed grass hay statistics provided for comparison.

**Calculations**

Adjusted Crude Protein	%DM	11.55		
NFC	%DM	25.01		
NSC	%DM	11.40		
RFV		90.95		
RFQ		130.60		
NDF kd rate Van Amb	%/hr	3.53		
NDF kd rate MIR_P1	%/hr	4.38		
		<b>ADF</b>	<b>OARDC</b>	<b>MLK 2013</b>
TDN	%DM	58.08	58.29	55.02
Nel 3x	Mcal/cwt	59.30	59.46	59.77
Neg	Mcal/cwt	27.54	31.66	27.46
Nem	Mcal/cwt	53.02	57.50	52.92
Milk per ton	lbs/ton			2522