



Dairyland Laboratories  
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**Sample Date:** 2023-12-12  
**Sample No.:** 003-2312-1309369

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

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

**Product:** 7640

**Test Mode:** N9  
**Feed Type:** Hay - Legume  
**Sub Type:** Alfalfa

Moisture	12.35%		
Dry Matter	87.65%		
		<b>Dry Basis</b>	<b>90% Range*</b>
Crude Protein	%DM	20.44	15.4 - 24.0
AD-ICP	%DM	1.41	1.08 - 2.13
ND-ICP w/SS	%DM	3.67	1.63 - 4.06
Protein Sol.	%CP	35.96	27.5 - 47.1
Total Amino Acids	%DM	17.49	11.2 - 20.2
Total Amino Acids	%CP	85.57	66.4 - 89.8
Lysine	%CP	5.19	3.61 - 5.16
Methionine	%CP	1.71	1.42 - 2.11
Isoleucine	%CP	3.72	2.48 - 3.77
Leucine	%CP	7.29	4.88 - 7.39
Histidine	%CP	1.71	1.43 - 1.88
ADF	%DM	32.49	25.5 - 41.8
aNDF	%DM	41.92	31.9 - 51.8
aNDFom	%DM	40.31	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	6.19	5.84 - 9.64
Lignin	%NDFom	15.36	
Lignin input (uNDF/2.4)	%DM	8.36	
NDFD12	%NDFom	35.15	28.9 - 47.1
NDFD 24	%NDFom	44.16	28.2 - 45.5
NDFD 30	%NDFom	45.30	31.3 - 48.1
NDFD 48	%NDFom	47.16	32.6 - 49.4
NDFD240	%NDFom	50.24	41.5 - 61.9
uNDFom12	%DM	26.14	16.6 - 30.2
uNDFom24	%DM	22.51	17.4 - 31.1
uNDFom30	%DM	22.05	16.5 - 29.5
uNDFom48	%DM	21.30	15.6 - 28.6
uNDFom240	%DM	20.06	13.0 - 27.8
Starch	%DM	1.26	0.28 - 3.74
Fat (EE)	%DM	2.79	1.77 - 3.35
TFA (fat)	%DM	1.55	0.81 - 2.33
16:0 Palmitic	%TFA	22.58	23.6 - 41.7
18:0 Stearic	%TFA	4.52	4.46 - 8.70
18:1 Oleic	%TFA	6.45	3.42 - 11.5
18:2 Linoleic	%TFA	18.06	12.5 - 22.7

18:3 Linolenic	%TFA	46.45	20.0 - 47.4
Ash	%DM	10.20	9.15 - 13.8
Calcium	%DM	0.97	1.19 - 1.84
Phosphorus	%DM	0.36	0.23 - 0.39
Magnesium	%DM	0.26	0.25 - 0.41
Potassium	%DM	3.36	1.83 - 3.36
Sulfur	%DM	0.27	0.17 - 0.33
Chloride	%DM	0.79	0.16 - 1.13
Sugar (ESC)	%DM	6.57	2.71 - 9.16
Sugar (WSC)	%DM	8.42	3.32 - 10.2

\*Alfalfa hay statistics provided for comparison.

**Calculations**

Adjusted Crude Protein	%DM	20.44		
NFC	%DM	30.17		
NSC	%DM	9.68		
RFV		140.98		
RFQ		144.06		
NDF kd rate Van Amb	%/hr	4.37		
NDF kd rate MIR_P1	%/hr	8.43		
		<b>ADF</b>	<b>OARDC</b>	<b>MLK 2013</b>
TDN	%DM	63.59	60.62	62.58
Nel 3x	Mcal/cwt	65.44	62.05	62.69
Neg	Mcal/cwt	35.08	38.35	40.90
Nem	Mcal/cwt	61.26	64.88	67.71
Milk per ton	lbs/ton			2807