



Dairyland Laboratories  
 919 Lincoln Ave.  
 Sauk Rapids, MN 56379  
**Telephone:** 320-240-1737  
**Fax:** 320-240-1838  
**Email:** info@dairylandlabs.com

**Sample Date:** 2023-12-12  
**Sample No.:** 003-2312-1308964

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

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

**Product:** 3737

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

Moisture	13.91%		
Dry Matter	86.09%		
		<b>Dry Basis</b>	<b>90% Range*</b>
Crude Protein	%DM	19.89	15.4 - 24.0
AD-ICP	%DM	1.42	1.08 - 2.13
ND-ICP w/SS	%DM	3.03	1.63 - 4.06
Protein Sol.	%CP	42.13	27.5 - 47.1
Total Amino Acids	%DM	14.13	11.2 - 20.2
Total Amino Acids	%CP	71.04	66.4 - 89.8
Lysine	%CP	4.07	3.61 - 5.16
Methionine	%CP	1.46	1.42 - 2.11
Isoleucine	%CP	3.07	2.48 - 3.77
Leucine	%CP	5.83	4.88 - 7.39
Histidine	%CP	1.56	1.43 - 1.88
ADF	%DM	36.61	25.5 - 41.8
aNDF	%DM	46.39	31.9 - 51.8
aNDFom	%DM	44.67	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	8.07	5.84 - 9.64
Lignin	%NDFom	18.07	
Lignin input (uNDF/2.4)	%DM	10.73	
NDFD12	%NDFom	28.01	28.9 - 47.1
NDFD 24	%NDFom	35.26	28.2 - 45.5
NDFD 30	%NDFom	36.62	31.3 - 48.1
NDFD 48	%NDFom	38.84	32.6 - 49.4
NDFD240	%NDFom	42.38	41.5 - 61.9
uNDFom12	%DM	32.16	16.6 - 30.2
uNDFom24	%DM	28.92	17.4 - 31.1
uNDFom30	%DM	28.31	16.5 - 29.5
uNDFom48	%DM	27.32	15.6 - 28.6
uNDFom240	%DM	25.74	13.0 - 27.8
Starch	%DM	0.88	0.28 - 3.74
Fat (EE)	%DM	1.87	1.77 - 3.35
TFA (fat)	%DM	0.96	0.81 - 2.33
16:0 Palmitic	%TFA	29.17	23.6 - 41.7
18:0 Stearic	%TFA	5.21	4.46 - 8.70
18:1 Oleic	%TFA	6.25	3.42 - 11.5
18:2 Linoleic	%TFA	17.71	12.5 - 22.7

18:3 Linolenic	%TFA	39.58	20.0 - 47.4
Ash	%DM	9.38	9.15 - 13.8
Calcium	%DM	1.01	1.19 - 1.84
Phosphorus	%DM	0.36	0.23 - 0.39
Magnesium	%DM	0.26	0.25 - 0.41
Potassium	%DM	3.18	1.83 - 3.36
Sulfur	%DM	0.23	0.17 - 0.33
Chloride	%DM	0.39	0.16 - 1.13
Sugar (ESC)	%DM	3.37	2.71 - 9.16
Sugar (WSC)	%DM	6.70	3.32 - 10.2

\*Alfalfa hay statistics provided for comparison.

**Calculations**

Adjusted Crude Protein	%DM	19.89		
NFC	%DM	27.13		
NSC	%DM	7.58		
RFV		121.23		
RFQ		105.81		
NDF kd rate Van Amb	%/hr	3.63		
NDF kd rate MIR_P1	%/hr	7.18		
		<b>ADF</b>	<b>OARDC</b>	<b>MLK 2013</b>
TDN	%DM	60.38	56.68	56.17
Nel 3x	Mcal/cwt	61.86	57.67	57.46
Neg	Mcal/cwt	32.97	32.98	32.42
Nem	Mcal/cwt	58.94	58.96	58.34
Milk per ton	lbs/ton			2384