



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.: 003-2312-1308965

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

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

Product: 3739

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

Moisture	12.30%		
Dry Matter	87.70%		
		Dry Basis	90% Range*
Crude Protein	%DM	17.69	15.4 - 24.0
AD-ICP	%DM	1.68	1.08 - 2.13
ND-ICP w/SS	%DM	3.86	1.63 - 4.06
Protein Sol.	%CP	35.27	27.5 - 47.1
Total Amino Acids	%DM	12.52	11.2 - 20.2
Total Amino Acids	%CP	70.77	66.4 - 89.8
Lysine	%CP	4.52	3.61 - 5.16
Methionine	%CP	1.36	1.42 - 2.11
Isoleucine	%CP	2.77	2.48 - 3.77
Leucine	%CP	5.54	4.88 - 7.39
Histidine	%CP	1.13	1.43 - 1.88
ADF	%DM	40.72	25.5 - 41.8
aNDF	%DM	52.99	31.9 - 51.8
aNDFom	%DM	50.86	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	8.19	5.84 - 9.64
Lignin	%NDFom	16.10	
Lignin input (uNDF/2.4)	%DM	11.08	
NDFD12	%NDFom	32.78	28.9 - 47.1
NDFD 24	%NDFom	41.92	28.2 - 45.5
NDFD 30	%NDFom	43.00	31.3 - 48.1
NDFD 48	%NDFom	44.75	32.6 - 49.4
NDFD240	%NDFom	47.74	41.5 - 61.9
uNDFom12	%DM	34.19	16.6 - 30.2
uNDFom24	%DM	29.54	17.4 - 31.1
uNDFom30	%DM	28.99	16.5 - 29.5
uNDFom48	%DM	28.10	15.6 - 28.6
uNDFom240	%DM	26.58	13.0 - 27.8
Starch	%DM	0.47	0.28 - 3.74
Fat (EE)	%DM	1.90	1.77 - 3.35
TFA (fat)	%DM	1.03	0.81 - 2.33
16:0 Palmitic	%TFA	24.27	23.6 - 41.7
18:0 Stearic	%TFA	4.85	4.46 - 8.70
18:1 Oleic	%TFA	7.77	3.42 - 11.5
18:2 Linoleic	%TFA	21.36	12.5 - 22.7

18:3 Linolenic	%TFA	39.81	20.0 - 47.4
Ash	%DM	9.70	9.15 - 13.8
Calcium	%DM	0.83	1.19 - 1.84
Phosphorus	%DM	0.36	0.23 - 0.39
Magnesium	%DM	0.22	0.25 - 0.41
Potassium	%DM	3.09	1.83 - 3.36
Sulfur	%DM	0.20	0.17 - 0.33
Chloride	%DM	0.31	0.16 - 1.13
Sugar (ESC)	%DM	3.18	2.71 - 9.16
Sugar (WSC)	%DM	6.13	3.32 - 10.2

*Alfalfa hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	17.69			
NFC	%DM	23.58			
NSC	%DM	6.60			
RFV		100.18			
RFQ		98.84			
NDF kd rate Van Amb	%/hr	4.23			
NDF kd rate MIR_P1	%/hr	8.39			
			ADF	OARDC	MLK 2013
TDN	%DM	57.18	54.17	56.27	
Nel 3x	Mcal/cwt	58.30	54.87	54.59	
Neg	Mcal/cwt	29.43	28.55	31.65	
Nem	Mcal/cwt	55.07	54.12	57.50	
Milk per ton	lbs/ton			2264	