



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.: 003-2312-1309379

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

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

Product: 3758

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

Moisture	10.34%		
Dry Matter	89.66%		
		Dry Basis	90% Range*
Crude Protein	%DM	18.96	15.4 - 24.0
AD-ICP	%DM	1.18	1.08 - 2.13
ND-ICP w/SS	%DM	2.93	1.63 - 4.06
Protein Sol.	%CP	41.24	27.5 - 47.1
Total Amino Acids	%DM	13.78	11.2 - 20.2
Total Amino Acids	%CP	72.68	66.4 - 89.8
Lysine	%CP	4.17	3.61 - 5.16
Methionine	%CP	1.58	1.42 - 2.11
Isoleucine	%CP	3.01	2.48 - 3.77
Leucine	%CP	5.91	4.88 - 7.39
Histidine	%CP	1.64	1.43 - 1.88
ADF	%DM	33.33	25.5 - 41.8
aNDF	%DM	42.09	31.9 - 51.8
aNDFom	%DM	40.48	29.3 - 48.5
Lignin (Sulfuric Acid)	%DM	6.84	5.84 - 9.64
Lignin	%NDFom	16.90	
Lignin input (uNDF/2.4)	%DM	9.70	
NDFD12	%NDFom	26.31	28.9 - 47.1
NDFD 24	%NDFom	35.28	28.2 - 45.5
NDFD 30	%NDFom	36.66	31.3 - 48.1
NDFD 48	%NDFom	38.93	32.6 - 49.4
NDFD240	%NDFom	42.47	41.5 - 61.9
uNDFom12	%DM	29.83	16.6 - 30.2
uNDFom24	%DM	26.20	17.4 - 31.1
uNDFom30	%DM	25.64	16.5 - 29.5
uNDFom48	%DM	24.72	15.6 - 28.6
uNDFom240	%DM	23.29	13.0 - 27.8
Starch	%DM	1.79	0.28 - 3.74
Fat (EE)	%DM	2.37	1.77 - 3.35
TFA (fat)	%DM	1.30	0.81 - 2.33
16:0 Palmitic	%TFA	22.31	23.6 - 41.7
18:0 Stearic	%TFA	4.62	4.46 - 8.70
18:1 Oleic	%TFA	6.15	3.42 - 11.5
18:2 Linoleic	%TFA	19.23	12.5 - 22.7

18:3 Linolenic	%TFA	45.38	20.0 - 47.4
Ash	%DM	8.47	9.15 - 13.8
Calcium	%DM	1.21	1.19 - 1.84
Phosphorus	%DM	0.32	0.23 - 0.39
Magnesium	%DM	0.30	0.25 - 0.41
Potassium	%DM	2.34	1.83 - 3.36
Sulfur	%DM	0.21	0.17 - 0.33
Chloride	%DM	0.32	0.16 - 1.13
Sugar (ESC)	%DM	7.76	2.71 - 9.16
Sugar (WSC)	%DM	10.60	3.32 - 10.2

*Alfalfa hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	18.96		
NFC	%DM	32.72		
NSC	%DM	12.39		
RFV		139.05		
RFQ		125.87		
NDF kd rate Van Amb	%/hr	3.39		
NDF kd rate MIR_P1	%/hr	7.15		
		ADF	OARDC	MLK 2013
TDN	%DM	62.94	61.13	59.97
Nel 3x	Mcal/cwt	64.72	62.62	62.47
Neg	Mcal/cwt	34.52	38.46	36.99
Nem	Mcal/cwt	60.65	65.00	63.37
Milk per ton	lbs/ton			2708