



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.: 003-2312-1309366

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

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

Product: 3746

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

Moisture	14.62%		
Dry Matter	85.38%		
		Dry Basis	90% Range*
Crude Protein	%DM	17.21	13.7 - 23.9
AD-ICP	%DM	1.47	1.06 - 2.09
ND-ICP w/SS	%DM	3.76	1.47 - 4.24
Protein Sol.	%CP	37.01	26.1 - 46.1
Total Amino Acids	%DM	13.03	6.52 - 15.6
Total Amino Acids	%CP	75.71	64.1 - 79.8
Lysine	%CP	4.07	3.44 - 4.63
Methionine	%CP	1.51	1.35 - 1.74
Isoleucine	%CP	3.37	2.63 - 3.55
Leucine	%CP	6.57	5.08 - 7.24
Histidine	%CP	1.51	1.25 - 1.70
ADF	%DM	36.01	25.8 - 41.6
aNDF	%DM	49.11	32.3 - 55.6
aNDFom	%DM	46.95	29.9 - 53.5
Lignin (Sulfuric Acid)	%DM	6.40	5.44 - 9.38
Lignin	%NDFom	13.63	
Lignin input (uNDF/2.4)	%DM	6.96	
NDFD12	%NDFom	39.21	21.0 - 43.6
NDFD 24	%NDFom	50.50	29.2 - 51.4
NDFD 30	%NDFom	53.14	32.1 - 54.7
NDFD 48	%NDFom	57.55	33.6 - 57.5
NDFD240	%NDFom	64.41	43.0 - 70.7
uNDFom12	%DM	28.54	20.1 - 48.9
uNDFom24	%DM	23.24	17.3 - 31.3
uNDFom30	%DM	22.00	16.4 - 29.7
uNDFom48	%DM	19.93	15.8 - 29.2
uNDFom240	%DM	16.71	12.2 - 28.8
Starch	%DM	0.60	0.29 - 3.75
Fat (EE)	%DM	2.87	1.88 - 3.44
TFA (fat)	%DM	1.36	0.87 - 2.47
16:0 Palmitic	%TFA	22.06	22.7 - 40.0
18:0 Stearic	%TFA	4.41	4.68 - 8.86
18:1 Oleic	%TFA	7.35	3.89 - 11.4
18:2 Linoleic	%TFA	16.91	11.4 - 22.4

18:3 Linolenic	%TFA	47.06	18.8 - 50.4
Ash	%DM	10.12	8.88 - 13.8
Calcium	%DM	0.91	0.93 - 1.81
Phosphorus	%DM	0.32	0.24 - 0.39
Magnesium	%DM	0.23	0.23 - 0.40
Potassium	%DM	3.03	1.76 - 3.37
Sulfur	%DM	0.21	0.16 - 0.33
Chloride	%DM	0.55	0.13 - 1.12
Sugar (ESC)	%DM	8.21	3.04 - 9.57
Sugar (WSC)	%DM	8.86	3.67 - 10.5

*Mixed hay statistics provided for comparison.

Calculations

Adjusted Crude Protein	%DM	17.21		
NFC	%DM	27.12		
NSC	%DM	9.46		
RFV		115.10		
RFQ		130.26		
NDF kd rate Van Amb	%/hr	5.05		
NDF kd rate MIR_P1	%/hr	6.22		
		ADF	OARDC	MLK 2013
TDN	%DM	60.85	57.95	62.31
Nel 3x	Mcal/cwt	62.39	59.08	60.36
Neg	Mcal/cwt	30.16	33.47	39.29
Nem	Mcal/cwt	55.87	59.50	65.92
Milk per ton	lbs/ton			2686