



CUMBERLAND VALLEY ANALYTICAL SERVICES

Laboratory services for agriculture ... from the field to the feed bunk.

Farm: HFL
Desc: 181K41 ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

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Lab ID: 24508 045
Sampled: 07/12/2018
Arrived: 07/17/2018
Completed: 07/18/2018
Reported: 07/18/2018

181K41 ALFALFA

SAMPLE INFORMATION

Lab ID: 24508 045 Version: 1.0
Crop Year: 2018 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 10.8
Dry Matter 89.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			12.7
Adjusted Protein			
Soluble Protein		54.0	6.8
Ammonia (CPE)	16.4	8.8	1.12
ADF Protein (ADICP)		9.4	1.19
NDF Protein (NDICP)		12.5	1.59
NDR Protein (NDRCP)			
Rumen Degr. Protein		77.0	9.8
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			86.6	32.2
aNDF		36.5		37.2
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			21.9	8.13
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	36.2	13.2	35.4	13.1
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	41.7	15.2	40.7	15.1
NDF Digestibility (240 hr)	43.9	16.0	42.9	15.9
uNDF (30 hr)	63.8	23.3	64.6	24.0
uNDF (120 hr)	58.3	21.3	59.3	22.0
uNDF (240 hr)	56.1	20.5	57.1	21.2

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		23.2	9.7
Water Soluble CHO (Sugar)			10.5
Starch		7.5	3.2
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.15
Fatty Acids (%Fat)			44.4
Crude Fat			2.59

MINERALS

Ash (%DM)	7.34
Calcium (%DM)	1.88
Phosphorus (%DM)	0.09
Magnesium (%DM)	0.29
Potassium (%DM)	1.07
Sulfur (%DM)	0.19
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

Total VFA (%DM)	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	
Soil Contamination Probability	Probable low to none
Nitrate Probability	
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	63.2
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.63
Net Energy Gain (Mcal/lb)	0.36
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.20
NDF Dig. Rate (Kd, %HR, uNDF)	4.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	160
Relative Forage Quality (RFQ)	146
Milk per Ton (lbs/ton)	3004
Dig. Organic Matter Index (lbs/ton)	1225
Non Fiber Carbohydrates (%DM)	41.8
Non Structural Carbohydrates (%DM)	12.9
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	8.8
Summative Index % (Mass Balance)	
Additional sample information, source and lab pictures	



Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms



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