



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 20B101 2ND CUT ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 29175 035
Sampled: 09/03/2020
Arrived: 09/15/2020
Completed: 09/16/2020
Reported: 09/16/2020

20B101 2ND CUT ALFALFA

SAMPLE INFORMATION

Lab ID: 29175 035 Version: 1.0
Crop Year: 2020 Series:
Feed Type: LEGUME FORAGE Cutting#: 2
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 10.0
Dry Matter 90.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			21.6
Adjusted Protein			
Soluble Protein		43.7	9.4
Ammonia (CPE)	11.3	5.0	1.07
ADF Protein (ADICP)		6.2	1.34
NDF Protein (NDICP)		8.1	1.74
NDR Protein (NDRCP)			
Rumen Degr. Protein		71.9	15.5
Amino Acid Protein, Total			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			86.1	31.3
aNDF		35.7		36.4
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.3	6.65
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	44.0	15.7	43.0	15.7
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	46.3	16.5	45.3	16.5
NDF Digestibility (240 hr)	48.2	17.2	47.2	17.2
uNDF (12 hr)				
uNDF (30 hr)	56.0	20.0	57.0	20.7
uNDF (120 hr)	53.7	19.2	54.7	19.9
uNDF (240 hr)	51.8	18.5	52.8	19.2

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		22.6	6.9
Water Soluble CHO (WSC-Sugar)			7.6
Starch		3.6	1.1
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.27
Fatty Acids, Total			1.35
C16:0			0.37
C18:0			0.06
C18:1			0.03
C18:2			0.23
C18:3			0.42
Unsaturated Fatty Acids (RUFAL)			0.68
Fatty Acids (%Fat)			59.5

MINERALS

Ash (%DM)	11.0
Calcium (%DM)	1.64
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.36
Potassium (%DM)	3.08
Sulfur (%DM)	0.32
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

QUALITATIVE

pH

Total VFA (%DM)

Lactic Acid (%DM)

Lactic as % of Total VFA

Acetic Acid (%DM)

Butyric Acid (%DM)

1, 2 Propanediol (%DM)

Nitrate Ion (%DM)

Soil Contamination Probability Probable low to none

Nitrate Probability Probable moderate nitrate level

NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	59.8
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.61
Net Energy Gain (Mcal/lb)	0.35
ME (Mcal/lb)	1
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.44
NDF Dig. Rate (Kd, %HR, uNDF)	5.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	165
Relative Forage Quality (RFQ)	160
Milk per Ton (lbs/ton)	2815
Dig. Organic Matter Index (lbs/ton)	1242
Non Fiber Carbohydrates (%DM)	30.5
Non Structural Carbohydrates (%DM)	8.0
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code



Values in bold were analyzed by wet chemistry methods.



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