



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 213321 3RD CUT ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 31214 194
Sampled: 10/22/2021
Arrived: 10/26/2021
Completed: 10/27/2021
Reported: 10/27/2021

213321 3RD CUT ALFALFA

SAMPLE INFORMATION

Lab ID: 31214 194 Version: 1.0
Crop Year: 2021 Series:
Feed Type: LEGUME FORAGE Cutting#: 3
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.2
Dry Matter 88.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			20.4
Adjusted Protein			20.4
Soluble Protein		41.5	8.5
Ammonia (CPE)	6.0	2.5	0.51
ADF Protein (ADICP)		6.7	1.37
NDF Protein (NDICP)		9.9	2.03
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.7	14.4
Amino Acid Protein, Total			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			81.3	25.8
aNDF		31.1		31.7
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.4	5.85
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	43.8	13.6	43.0	13.6
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	48.0	14.9	47.0	14.9
NDF Digestibility (240 hr)	52.2	16.2	51.1	16.2
uNDF (12 hr)				
uNDF (30 hr)	56.2	17.5	57.0	18.1
uNDF (120 hr)	52.0	16.2	53.0	16.8
uNDF (240 hr)	47.8	14.9	48.9	15.5

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		29.0	10.6
Water Soluble CHO (WSC-Sugar)			11.3
Starch		6.6	2.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.97
Fatty Acids, Total			1.75
C16:0			0.40
C18:0			0.06
C18:1			0.04
C18:2			0.31
C18:3			0.64
Unsaturated Fatty Acids (RUFAL)			0.99
Fatty Acids (%Fat)			58.9

MINERALS

Ash (%DM)	10.3
Calcium (%DM)	1.59
Phosphorus (%DM)	0.25
Magnesium (%DM)	0.29
Potassium (%DM)	2.83
Sulfur (%DM)	0.26
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)

Nitrate-Nitrogen, ppm

Soil Contamination Probability Probable low to none

NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	64.0
Net Energy Lactation (Mcal/lb)	0.66
Net Energy Maintenance (Mcal/lb)	0.69
Net Energy Gain (Mcal/lb)	0.42
ME (Mcal/lb)	1.09
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.49
NDF Dig. Rate (Kd, %HR, uNDF)	4.6
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	202
Relative Forage Quality (RFQ)	197
Milk per Ton (lbs/ton)	3185
Dig. Organic Matter Index (lbs/ton)	1282
Non Fiber Carbohydrates (%DM)	36.6
Non Structural Carbohydrates, ESC (%DM)	13.0
Non Structural Carbohydrates, WSC (%DM)	13.7
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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