



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 21114 1ST CUT ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 30684 382
Sampled: 07/06/2021
Arrived: 07/07/2021
Completed: 07/08/2021
Reported: 07/08/2021

21114 1ST CUT ALFALFA

SAMPLE INFORMATION

Lab ID: 30684 382 Version: 1.0
Crop Year: 2021 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.0
Dry Matter 89.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			20.0
Adjusted Protein			20.0
Soluble Protein		36.9	7.4
Ammonia (CPE)	11.9	4.4	0.88
ADF Protein (ADICP)		6.7	1.34
NDF Protein (NDICP)		13.7	2.74
NDR Protein (NDRCP)			
Rumen Degr. Protein		68.4	13.7
Amino Acid Protein, Total			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			81.3	32.1
aNDF		38.8		39.4
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.2	7.17
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	45.1	17.5	45.1	17.8
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	48.4	18.8	48.2	19.0
NDF Digestibility (240 hr)	50.8	19.7	50.4	19.9
uNDF (12 hr)				
uNDF (30 hr)	54.9	21.3	55.0	21.7
uNDF (120 hr)	51.6	20.0	51.8	20.4
uNDF (240 hr)	49.3	19.1	49.6	19.5

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		24.3	7.8
Water Soluble CHO (WSC-Sugar)			8.8
Starch		5.5	1.8
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.10
Fatty Acids, Total			1.27
C16:0			0.37
C18:0			0.06
C18:1			0.03
C18:2			0.24
C18:3			0.41
Unsaturated Fatty Acids (RUFAL)			0.68
Fatty Acids (%Fat)			60.5

MINERALS

Ash (%DM)	9.19
Calcium (%DM)	1.39
Phosphorus (%DM)	0.24
Magnesium (%DM)	0.29
Potassium (%DM)	2.62
Sulfur (%DM)	0.29
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)	60.0
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.62
Net Energy Gain (Mcal/lb)	0.35
ME (Mcal/lb)	1.01
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.83
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	151
Relative Forage Quality (RFQ)	154
Milk per Ton (lbs/ton)	2905
Dig. Organic Matter Index (lbs/ton)	1237
Non Fiber Carbohydrates (%DM)	32.0
Non Structural Carbohydrates, ESC (%DM)	9.6
Non Structural Carbohydrates, WSC (%DM)	10.6
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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