



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD.
Desc: 223A53 3RD CUT ALFALFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 32935 173
Sampled: 10/27/2022
Arrived: 10/28/2022
Completed: 10/31/2022
Reported: 10/31/2022

223A53 3RD CUT ALFALFA

SAMPLE INFORMATION

Lab ID: 32935 173 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.5
Dry Matter 88.5

PROTEINS

	% SP	% CP	% DM
Crude Protein			20.5
Adjusted Protein			20.5
Soluble Protein		36.8	7.6
Ammonia (CPE)	7.9	2.9	0.60
ADF Protein (ADICP)		6.5	1.34
NDF Protein (NDICP)		12.6	2.59
NDR Protein (NDRCP)			
Rumen Degr. Protein		68.4	14.0
Amino Acid Protein, Total			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			80.0	27.6
aNDF		34.0		34.5
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.1	6.24
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	46.9	16.0	46.6	16.1
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	49.9	17.0	49.6	17.1
NDF Digestibility (240 hr)	54.6	18.6	54.1	18.7
uNDF (12 hr)				
uNDF (30 hr)	53.1	18.1	53.4	18.4
uNDF (120 hr)	50.2	17.1	50.4	17.4
uNDF (240 hr)	45.4	15.5	45.9	15.8

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		31.4	11.3
Water Soluble CHO (WSC-Sugar)			12.3
Starch		7.3	2.6
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.39
Fatty Acids, Total			1.51
C16:0			0.38
C18:0			0.06
C18:1			0.04
C18:2			0.29
C18:3			0.52
Unsaturated Fatty Acids (RUFAL)			0.85
Fatty Acids (%Fat)			63.2

MINERALS

Ash (%DM)	9.18
Calcium (%DM)	1.19
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.22
Potassium (%DM)	2.88
Sulfur (%DM)	0.28
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)	63.2
Net Energy Lactation (Mcal/lb)	0.65
Net Energy Maintenance (Mcal/lb)	0.67
Net Energy Gain (Mcal/lb)	0.41
ME (Mcal/lb)	1.07
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	5.17
NDF Dig. Rate (Kd, %HR, uNDF)	4.9
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	182
Relative Forage Quality (RFQ)	187
Milk per Ton (lbs/ton)	3185
Dig. Organic Matter Index (lbs/ton)	1288
Non Fiber Carbohydrates (%DM)	36.0
Non Structural Carbohydrates, ESC (%DM)	13.9
Non Structural Carbohydrates, WSC (%DM)	14.9
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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