



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS
Desc: 201M21B 1ST CUT ALFLAFA
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 28775 046
Sampled: 07/06/2020
Arrived: 07/09/2020
Completed: 07/10/2020
Reported: 07/10/2020

201M21B 1ST CUT ALFLAFA

SAMPLE INFORMATION

Lab ID: 28775 046 Version: 1.0
Crop Year: 2020 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 13.2
Dry Matter 86.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			15.4
Adjusted Protein			
Soluble Protein		42.1	6.5
Ammonia (CPE)	12.5	5.3	0.81
ADF Protein (ADICP)		6.8	1.05
NDF Protein (NDICP)		7.8	1.20
NDR Protein (NDRCP)			
Rumen Degr. Protein		71.0	10.9
Amino Acid Protein, Total			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			72.8	29.7
aNDF		38.8		40.8
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			17.1	6.98
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	50.6	19.6	48.1	19.6
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	58.1	22.5	55.3	22.6
NDF Digestibility (240 hr)	60.6	23.5	57.7	23.5
uNDF (12 hr)				
uNDF (30 hr)	49.4	19.2	52.0	21.2
uNDF (120 hr)	42.0	16.3	44.7	18.3
uNDF (240 hr)	39.4	15.3	42.3	17.3

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		23.7	8.2
Water Soluble CHO (WSC-Sugar)			11.0
Starch		12.2	4.2
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.59
Fatty Acids, Total			1.31
C16:0			0.30
C18:0			0.05
C18:1			0.03
C18:2			0.26
C18:3			0.40
Unsaturated Fatty Acids (RUFAL)			0.69
Fatty Acids (%Fat)			50.6

MINERALS

Ash (%DM)	7.46
Calcium (%DM)	1.14
Phosphorus (%DM)	0.20
Magnesium (%DM)	0.24
Potassium (%DM)	1.99
Sulfur (%DM)	0.24
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 low nitrate level
NIR Statistical Confidence	Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	61.7
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Maintenance (Mcal/lb)	0.65
Net Energy Gain (Mcal/lb)	0.38
ME (Mcal/lb)	1.04
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	5.04
NDF Dig. Rate (Kd, %HR, uNDF)	4.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	150
Relative Forage Quality (RFQ)	173
Milk per Ton (lbs/ton)	3036
Dig. Organic Matter Index (lbs/ton)	1273
Non Fiber Carbohydrates (%DM)	34.60
Non Structural Carbohydrates (%DM)	12.4
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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