



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD.
Desc: 222B111 2ND CUT TIMOTHY
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 32935 179
Sampled: 10/27/2022
Arrived: 10/28/2022
Completed: 10/31/2022
Reported: 10/31/2022

222B111 2ND CUT TIMOTHY

SAMPLE INFORMATION

Lab ID: 32935 179 Version: 1.0
Crop Year: Series:
Feed Type: GRASS FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 12.6
Dry Matter 87.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			13.4
Adjusted Protein			13.4
Soluble Protein		27.1	3.6
Ammonia (CPE)	27.6	7.5	1.00
ADF Protein (ADICP)		9.3	1.24
NDF Protein (NDICP)		38.4	5.14
NDR Protein (NDRCP)			
Rumen Degr. Protein		63.5	8.5
Amino Acid Protein, Total			

FIBER

	% NDF	% DM
ADF	62.5	37.9
aNDF		60.7
aNDFom		58.4
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	7.67	4.65
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		40.8	8.4
Water Soluble CHO (WSC-Sugar)			11.1
Starch	8.6		1.8
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.74
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	7.87
Calcium (%DM)	0.38
Phosphorus (%DM)	0.24
Magnesium (%DM)	0.20
Potassium (%DM)	2.08
Sulfur (%DM)	
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
NIR Statistical Confidence

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)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.7
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	91
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	20.5
Non Structural Carbohydrates, ESC (%DM)	10.2
Non Structural Carbohydrates, WSC (%DM)	12.9
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.



Cumberland Valley Analytical Services, Inc.



4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB