



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 201S281 1ST KENTUCKY BLUEGRASS
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 29136 044
Sampled: 08/22/2020
Arrived: 09/08/2020
Completed: 09/09/2020
Reported: 09/09/2020

201S281 1ST KENTUCKY BLUEGRASS

SAMPLE INFORMATION

Lab ID: 29136 044 Version: 1.0
Crop Year: 2020 Series:
Feed Type: GRASS FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 7.0
Dry Matter 93.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			10.3
Adjusted Protein			10.3
Soluble Protein		29.2	3.0
Ammonia (CPE)	7.3	2.1	0.22
ADF Protein (ADICP)		5.7	0.59
NDF Protein (NDICP)		20.9	2.16
NDR Protein (NDRCP)			
Rumen Degr. Protein		64.6	6.7
Amino Acid Protein, Total			

FIBER

	% NDF	% DM
ADF	59.8	35.9
aNDF		59.9
aNDFom		57.2
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	5.52	3.31
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)		49.1	9.4
Water Soluble CHO (WSC-Sugar)			13.2
Starch	8.3		1.6
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			3.78
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	9.01
Calcium (%DM)	0.33
Phosphorus (%DM)	0.27
Magnesium (%DM)	0.21
Potassium (%DM)	2.20
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

TDN (%DM)	62.4
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.66
Net Energy Gain (Mcal/lb)	0.39
ME (Mcal/lb)	1.06
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.1
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	95
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	19.10
Non Structural Carbohydrates (%DM)	11.0
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