



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#643 3RD**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

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DE KOK, MAKAYLA

Lab ID: **34268 173**
Sampled: **09/19/2023**
Arrived: **09/20/2023**
Completed: **09/21/2023**
Reported: **09/21/2023**

#643 3RD

SAMPLE INFORMATION

Lab ID: 34268 173 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 7.5
Dry Matter 92.5

PROTEINS

	% SP	% CP	% DM
Crude Protein			19.0
Adjusted Protein			19.0
Soluble Protein		51.7	9.8
Ammonia (CPE)	8.8	4.5	0.86
ADF Protein (ADICP)		7.1	1.34
NDF Protein (NDICP)		7.7	1.46
NDR Protein (NDRCP)			
Rumen Degr. Protein		75.8	14.4
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			85.3	33.4
aNDF		37.8		39.2
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			17.7	6.93
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	42.8	16.2	41.8	16.4
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	45.2	17.1	44.0	17.2
NDF Digestibility (240 hr)	47.0	17.8	45.9	18.0
uNDF (12 hr)				
uNDF (30 hr)	57.2	21.6	58.2	22.8
uNDF (120 hr)	54.8	20.7	56.0	21.9
uNDF (240 hr)	53.0	20.0	54.1	21.2

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		24.6	7.7
Water Soluble CHO (WSC-Sugar)			9.6
Starch		2.4	0.8
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.00
Fatty Acids, Total			1.18
C16:0			0.32
C18:0			0.05
C18:1			0.03
C18:2			0.21
C18:3			0.32
Unsaturated Fatty Acids (RUFAL)			0.56
Fatty Acids (%Fat)			59.0

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM)	10.1
Calcium (%DM)	1.50
Phosphorus (%DM)	0.29
Magnesium (%DM)	0.27
Potassium (%DM)	3.01
Sulfur (%DM)	0.25
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)	58.9
Net Energy Lactation (Mcal/lb)	0.60
Net Energy Lactation NASEM (Mcal/lb)	0.69
Net Energy Maintenance (Mcal/lb)	0.60
Net Energy Gain (Mcal/lb)	0.34
ME (Mcal/lb)	0.99
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.01
NDF Dig. Rate (Kd, %HR, uNDF)	5.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	149
Relative Forage Quality (RFQ)	143
Milk per Ton (lbs/ton)	2715
Dig. Organic Matter Index (lbs/ton)	1264
ROM (Residual Organic Matter)	30.88
NFC (Non-Fiber Carbohydrates)(%DM)	31.2
NSC (Non-Structural Carbohydrates) ESC (%DM)	8.5
NSC (Non-Structural Carbohydrates) WSC (%DM)	10.4
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

Additional sample information, submitted documents and lab pictures linked to QR code

