



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#641 3RD CUT ALF**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

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DE KOK, MAKAYLA

Lab ID: **34268 175**
Sampled: **09/19/2023**
Arrived: **09/20/2023**
Completed: **09/21/2023**
Reported: **09/21/2023**

#641 3RD CUT ALF

SAMPLE INFORMATION

Lab ID: 34268 175 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 7.6
Dry Matter 92.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			21.9
Adjusted Protein			21.9
Soluble Protein		50.6	11.1
Ammonia (CPE)	10.2	5.2	1.13
ADF Protein (ADICP)		5.9	1.29
NDF Protein (NDICP)		6.1	1.33
NDR Protein (NDRCP)			
Rumen Degr. Protein		75.3	16.5
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			83.8	30.0
aNDF		34.7		35.8
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.2	6.50
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	42.0	14.6	40.8	14.6
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	44.3	15.4	43.0	15.4
NDF Digestibility (240 hr)	46.3	16.1	44.8	16.0
uNDF (12 hr)				
uNDF (30 hr)	58.0	20.1	59.2	21.2
uNDF (120 hr)	55.7	19.3	57.0	20.4
uNDF (240 hr)	53.7	18.6	55.2	19.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		23.8	7.5
Water Soluble CHO (WSC-Sugar)			9.1
Starch		2.9	0.9
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.41
Fatty Acids, Total			1.37
C16:0			0.38
C18:0			0.06
C18:1			0.03
C18:2			0.24
C18:3			0.41
Unsaturated Fatty Acids (RUFAL)			0.68
Fatty Acids (%Fat)			56.9

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM)	9.84
Calcium (%DM)	1.62
Phosphorus (%DM)	0.28
Magnesium (%DM)	0.35
Potassium (%DM)	2.51
Sulfur (%DM)	0.32
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)	61.4
Net Energy Lactation (Mcal/lb)	0.63
Net Energy Lactation NASEM (Mcal/lb)	0.72
Net Energy Maintenance (Mcal/lb)	0.64
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)	3.99
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	170
Relative Forage Quality (RFQ)	161
Milk per Ton (lbs/ton)	2899
Dig. Organic Matter Index (lbs/ton)	1294
ROM (Residual Organic Matter)	30.97
NFC (Non-Fiber Carbohydrates)(%DM)	31.4
NSC (Non-Structural Carbohydrates) ESC (%DM)	8.4
NSC (Non-Structural Carbohydrates) WSC (%DM)	10.0
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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

