



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: DEVRY FORAGES
Desc: #647 3RD CUT ALF
Submitter: CVAS, ANALYSIS
Account: CVAS ANALYSIS

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Lab ID: 34268 261
Sampled: 09/26/2023
Arrived: 09/27/2023
Completed: 09/28/2023
Reported: 09/28/2023

#647 3RD CUT ALF

SAMPLE INFORMATION

Lab ID: 34268 261 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 8.5
Dry Matter 91.5

PROTEINS

	% SP	% CP	% DM
Crude Protein			18.9
Adjusted Protein			18.9
Soluble Protein		45.6	8.6
Ammonia (CPE)	16.9	7.7	1.46
ADF Protein (ADICP)		7.5	1.42
NDF Protein (NDICP)		10.6	2.01
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.8	13.8
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			83.0	34.6
aNDF		41.1		41.7
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.2	7.59
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	40.9	16.8	40.8	17.0
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	43.8	18.0	43.6	18.2
NDF Digestibility (240 hr)	45.8	18.8	45.5	19.0
uNDF (12 hr)				
uNDF (30 hr)	59.1	24.3	59.2	24.7
uNDF (120 hr)	56.2	23.1	56.4	23.5
uNDF (240 hr)	54.2	22.3	54.5	22.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		23.3	7.3
Water Soluble CHO (WSC-Sugar)			10.3
Starch		4.3	1.3
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.16
Fatty Acids, Total			1.17
C16:0			0.33
C18:0			0.06
C18:1			0.04
C18:2			0.21
C18:3			0.36
Unsaturated Fatty Acids (RUFAL)			0.61
Fatty Acids (%Fat)			54.2

MINERALS

Ash (%DM)	8.03
Calcium (%DM)	1.47
Phosphorus (%DM)	0.26
Magnesium (%DM)	0.38
Potassium (%DM)	1.97
Sulfur (%DM)	0.28
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)	59.6
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Lactation NASEM (Mcal/lb)	0.69
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)	3.99
NDF Dig. Rate (Kd, %HR, uNDF)	5.1
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	138
Relative Forage Quality (RFQ)	134
Milk per Ton (lbs/ton)	2795
Dig. Organic Matter Index (lbs/ton)	1238
ROM (Residual Organic Matter)	29.44
NFC (Non-Fiber Carbohydrates)(%DM)	31.2
NSC (Non-Structural Carbohydrates) ESC (%DM)	8.6
NSC (Non-Structural Carbohydrates) WSC (%DM)	11.6
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.

