



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#725 2ND CUT LGL**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

Copies to: **NEELS, PETE**
DE KOK, MAKAYLA

Lab ID: **35785 302**
Sampled: **09/12/2024**
Arrived: **09/13/2024**
Completed: **09/13/2024**
Reported: **09/13/2024**

#725 2ND CUT LGL

SAMPLE INFORMATION

Lab ID: 35785 302 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 10.8
Dry Matter 89.2

PROTEINS

	% SP	% CP	% DM
Crude Protein			20.0
Adjusted Protein			20.0
Soluble Protein		42.8	8.6
Ammonia (CPE)	15.1	6.5	1.29
ADF Protein (ADICP)		6.5	1.30
NDF Protein (NDICP)		10.2	2.03
NDR Protein (NDRCP)			
Rumen Degr. Protein		71.4	14.3
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			84.5	30.4
aNDF		32.6		36.0
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.5	6.65
NDF Digestibility (12 hr)	20.6	6.7	18.6	7.0
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	42.0	13.7	37.5	13.5
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	44.2	14.4	39.5	14.2
NDF Digestibility (240 hr)	46.0	15.0	41.2	14.8
uNDF (12 hr)	79.4	25.9		
uNDF (30 hr)	58.0	18.9	62.5	22.5
uNDF (120 hr)	55.8	18.2	60.5	21.8
uNDF (240 hr)	54.0	17.6	58.9	21.2

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		25.5	8.4
Water Soluble CHO (WSC-Sugar)			10.6
Starch		3.6	1.2
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.27
Fatty Acids, Total			1.22
C16:0			0.38
C18:0			0.06
C18:1			0.03
C18:2			0.22
C18:3			0.35
Unsaturated Fatty Acids (RUFAL)			0.60
Fatty Acids (%Fat)			53.7

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM)	10.8
Calcium (%DM)	1.74
Phosphorus (%DM)	0.21
Magnesium (%DM)	0.39
Potassium (%DM)	1.51
Sulfur (%DM)	0.31
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 moderate contamination

NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	60.2
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.62
Net Energy Gain (Mcal/lb)	0.36
ME (Mcal/lb)	1.01
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.52
NDF Dig. Rate (Kd, %HR, uNDF)	5.1
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	169
Relative Forage Quality (RFQ)	151
Milk per Ton (lbs/ton)	2763
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	1253
ROM (Residual Organic Matter)	33.91
NFC (Non-Fiber Carbohydrates)(%DM)	33.0
NSC (Non-Structural Carbohydrates) ESC (%DM)	9.6
NSC (Non-Structural Carbohydrates) WSC (%DM)	11.8
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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

