



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**  
Desc: **#706 2ND CUT BNE-N**  
Submitter: **CVAS, ANALYSIS**  
Account: **CVAS ANALYSIS**

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

Lab ID: **35785 117**  
Sampled: **08/12/2024**  
Arrived: **08/13/2024**  
Completed: **08/13/2024**  
Reported: **08/13/2024**

## #706 2ND CUT BNE-N

### SAMPLE INFORMATION

Lab ID: 35785 117      Version: 1.0  
Crop Year:                      Series:  
Feed Type: LEGUME FORAGE      Cutting#:  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 9.5  
Dry Matter 90.5

### PROTEINS

	% SP	% CP	% DM
Crude Protein			20.4
Adjusted Protein			20.4
Soluble Protein		45.1	9.2
Ammonia (CPE)	11.7	5.3	1.08
ADF Protein (ADICP)		6.7	1.37
NDF Protein (NDICP)		7.1	1.46
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.5	14.8
Amino Acid Protein, Total			

### FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			85.9	32.7
aNDF		36.7		38.1
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.2	6.95
NDF Digestibility (12 hr)	24.2	8.9	23.2	9.3
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	44.7	16.4	42.8	16.3
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	46.9	17.2	45.0	17.2
NDF Digestibility (240 hr)	49.1	18.0	47.0	17.9
uNDF (12 hr)	75.8	27.8		
uNDF (30 hr)	55.3	20.3	57.2	21.8
uNDF (120 hr)	53.1	19.5	55.0	21.0
uNDF (240 hr)	50.9	18.7	53.0	20.2

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		23.2	7.2
Water Soluble CHO (WSC-Sugar)			8.7
Starch		3.4	1.1
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.19
Fatty Acids, Total			1.27
C16:0			0.37
C18:0			0.06
C18:1			0.03
C18:2			0.22
C18:3			0.41
Unsaturated Fatty Acids (RUFAL)			0.66
Fatty Acids (%Fat)			58.0

Values in bold were analyzed by wet chemistry methods.

### MINERALS

Ash (%DM)	9.88
Calcium (%DM)	1.60
Phosphorus (%DM)	0.29
Magnesium (%DM)	0.37
Potassium (%DM)	2.53
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)	59.7
Net Energy Lactation (Mcal/lb)	0.61
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)	4.38
NDF Dig. Rate (Kd, %HR, uNDF)	5.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	155
Relative Forage Quality (RFQ)	152
Milk per Ton (lbs/ton)	2809
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	1265
ROM (Residual Organic Matter)	30.42
NFC (Non-Fiber Carbohydrates)(%DM)	30.8
NSC (Non-Structural Carbohydrates) ESC (%DM)	8.3
NSC (Non-Structural Carbohydrates) WSC (%DM)	9.8
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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

