



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**  
Desc: **#697 1ST CUT RNDS 273 BALES**  
Submitter: **CVAS, ANALYSIS**  
Account: **CVAS ANALYSIS**

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Lab ID: **35077 252**  
Sampled: **07/16/2024**  
Arrived: **07/17/2024**  
Completed: **07/17/2024**  
Reported: **07/17/2024**

## #697 1ST CUT RNDS 273 BALES

### SAMPLE INFORMATION

Lab ID: 35077 252      Version: 1.0  
Crop Year:                      Series:  
Feed Type: LEGUME FORAGE      Cutting#:  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 13.3  
Dry Matter 86.7

### PROTEINS

	% SP	% CP	% DM
Crude Protein			15.8
Adjusted Protein			15.8
Soluble Protein		46.2	7.3
Ammonia (CPE)	15.5	7.1	1.13
ADF Protein (ADICP)		8.0	1.26
NDF Protein (NDICP)		8.7	1.38
NDR Protein (NDRCP)			
Rumen Degr. Protein		73.1	11.6
Amino Acid Protein, Total			

### FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			80.7	36.3
aNDF		44.3		45.0
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			18.4	8.26
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	31.0	13.8	31.1	14.0
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	34.4	15.3	34.5	15.5
NDF Digestibility (240 hr)	36.0	16.0	36.0	16.2
uNDF (12 hr)				
uNDF (30 hr)	69.0	30.6	68.9	31.0
uNDF (120 hr)	65.6	29.1	65.5	29.5
uNDF (240 hr)	64.0	28.4	64.0	28.8

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		27.2	8.5
Water Soluble CHO (WSC-Sugar)			11.2
Starch		1.6	0.5
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.39
Fatty Acids, Total			1.19
C16:0			0.31
C18:0			0.05
C18:1			0.02
C18:2			0.21
C18:3			0.31
Unsaturated Fatty Acids (RUFAL)			0.54
Fatty Acids (%Fat)			49.8

### MINERALS

Ash (%DM) 6.85  
Calcium (%DM) 1.51  
Phosphorus (%DM) 0.14  
Magnesium (%DM) 0.37  
Potassium (%DM) 0.96  
Sulfur (%DM) 0.23  
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) 59.0  
Net Energy Lactation (Mcal/lb) 0.60  
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) 2.61  
NDF Dig. Rate (Kd, %HR, uNDF) 4.3  
Starch Dig. Rate (Kd, %HR, Mertens)  
Relative Feed Value (RFV) 125  
Relative Forage Quality (RFQ) 102  
Milk per Ton (lbs/ton) 2531  
Beef per Ton (lbs/ton)  
Dig. Organic Matter Index (lbs/ton) 1086  
ROM (Residual Organic Matter) 30.88  
NFC (Non-Fiber Carbohydrates)(%DM) 31.4  
NSC (Non-Structural Carbohydrates) ESC (%DM) 9.0  
NSC (Non-Structural Carbohydrates) WSC (%DM) 11.7  
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.

