



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: Desc: **CUMBERLAND BC DAIRY, WEST**
FORAGES 3RD CUT-LOWER FIELD-SINGLE TOWER

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Lab ID: 37486 174
Sampled: 08/10/2025
Arrived: 08/12/2025
Completed: 08/15/2025
Reported: 08/15/2025

Account: TNCA BC DAIRY

3RD CUT-LOWER FIELD-SINGLE TOWER

SAMPLE INFORMATION

Lab ID: 37486 174 Version: 1.0
Crop Year: MIXED FORAGE Series:
Feed Type: NIR Wet Minerals Cutting #:
Package:

NIR ANALYSIS RESULTS

Moisture 8.8
Dry Matter 91.2

PROTEINS	% SP	% CP	% DM
Crude Protein			14.7
Adjusted Protein			14.7
Soluble Protein		31.9	4.7
Ammonia (CPE)	21.8	6.9	1.02
ADF Protein (ADICP)		8.9	1.31
NDF Protein (NDICP)		22.2	3.26
NDR Protein (NDRCP)			9.7
Rumen Degr. Protein		65.9	
Amino Acid Protein, Total			

FIBER	% NDF	% DM
ADF	71.6	36.9
aNDF		51.6
aNDFom		50.8
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin		
NDF Digestibility (12 hr)	12.5	6.47
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (72 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (12 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

Ethanol Soluble CHO (ESC-Sugar)	% Starch	% NFC	% DM
Water Soluble CHO (WSC-Sugar)	27.1	6.9	
Starch		10.4	
Soluble Starch	0.5	0.1	
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			
Fatty Acids, Total			
C16:0		2.72	
C18:0			
C18:1			
C18:2			
C18:3			

Unsaturated Fatty Acids (RUFAL)
Fatty Acids (%Fat)

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM)	8.75
Calcium (%DM)	1.19
Phosphorus (%DM)	0.20
Magnesium (%DM)	0.30
Potassium (%DM)	2.07
Sulfur (%DM)	0.27
Sodium (%DM)	0.05
Chloride (%DM)	107.00
Iron (PPM)	60.00
Manganese (PPM)	16.00
Zinc (PPM)	13.00
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
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

Equine TDN (%DM)	50.8
Equine DE (Mcal/lb)	1.02
Net Energy Lactation (Mcal/lb)	0.59
Net Energy Maintenance (Mcal/lb)	0.58
Net Energy Gain (Mcal/lb)	0.32
ME (Mcal/lb)	0.97
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	5.5
Relative Feed Value (RFV)	108
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
NFC (Non-Fiber Carbohydrates) (%DM)	
NSC (Non-Structural Carbohydrates) ESC (%DM)	25.5
NSC (Non-Structural Carbohydrates) WSC (%DM)	7.0
DCAD (meq/100gdm)	10.5
Summative Index % (Mass Balance)	

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



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