



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: DEVRY FORAGES
Desc: #815 SKO 2ND SE
Submitter: CVAS, ANALYSIS
Account: CVAS ANALYSIS

Copies to: NEELS, PETE
DE KOK, MAKAYLA

Lab ID: 37331 246
Sampled: 08/07/2025
Arrived: 08/08/2025
Completed: 08/11/2025
Reported: 08/11/2025

#815 SKO 2ND SE

SAMPLE INFORMATION

Lab ID: 37331 246 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.3
Dry Matter 88.7

PROTEINS

	% SP	% CP	% DM
Crude Protein			17.8
Adjusted Protein			17.8
Soluble Protein		37.5	6.7
Ammonia (CPE)	21.0	7.9	1.40
ADF Protein (ADICP)		8.3	1.47
NDF Protein (NDICP)		15.2	2.70
NDR Protein (NDRCP)			
Rumen Degr. Protein		68.8	12.2
Amino Acid Protein, Total			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			85.2	40.4
aNDF		46.2		47.5
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			19.0	9.00
NDF Digestibility (12 hr)	20.0	9.2	19.6	9.7
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	39.2	18.1	37.9	18.0
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	41.8	19.3	40.4	19.2
NDF Digestibility (240 hr)	44.4	20.5	42.9	20.3
uNDF (12 hr)	80.0	37.0		
uNDF (30 hr)	60.8	28.1	62.2	29.5
uNDF (120 hr)	58.2	26.9	59.6	28.3
uNDF (240 hr)	55.6	25.7	57.2	27.1

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		20.1	5.4
Water Soluble CHO (WSC-Sugar)			9.0
Starch			
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.05
Fatty Acids, Total			1.09
C16:0			0.33
C18:0			0.05
C18:1			0.03
C18:2			0.20
C18:3			0.24
Unsaturated Fatty Acids (RUFAL)			0.47
Fatty Acids (%Fat)			53.2

MINERALS

Ash (%DM)	8.61
Calcium (%DM)	1.49
Phosphorus (%DM)	0.23
Magnesium (%DM)	0.33
Potassium (%DM)	1.63
Sulfur (%DM)	0.27
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)	55.4
Net Energy Lactation (Mcal/lb)	0.56
Net Energy Maintenance (Mcal/lb)	0.53
Net Energy Gain (Mcal/lb)	0.27
ME (Mcal/lb)	0.91
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.71
NDF Dig. Rate (Kd, %HR, uNDF)	4.8
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	112
Relative Forage Quality (RFQ)	104
Milk per Ton (lbs/ton)	2432
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	1123
NFC (Non-Fiber Carbohydrates)(%DM)	26.8
NSC (Non-Structural Carbohydrates) ESC (%DM)	
NSC (Non-Structural Carbohydrates) WSC (%DM)	
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.

