



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: DEVRY FORAGES
Desc: #712 2ND
Submitter: CVAS, ANALYSIS
Account: CVAS ANALYSIS

Copies to: NEELS, PETE
DE KOK, MAKAYLA

Lab ID: 35785 113
Sampled: 08/12/2024
Arrived: 08/13/2024
Completed: 08/13/2024
Reported: 08/13/2024

#712 2ND

SAMPLE INFORMATION

Lab ID: 35785 113 Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 12.0
Dry Matter 88.0

PROTEINS

	% SP	% CP	% DM
Crude Protein			20.6
Adjusted Protein			20.6
Soluble Protein		44.3	9.1
Ammonia (CPE)	14.0	6.2	1.28
ADF Protein (ADICP)		6.0	1.24
NDF Protein (NDICP)		8.8	1.82
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.2	14.9
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			84.8	34.2
aNDF		39.7		40.3
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			19.1	7.68
NDF Digestibility (12 hr)	18.2	7.2	19.2	7.6
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	40.3	16.0	40.3	16.2
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	42.6	16.9	42.4	17.1
NDF Digestibility (240 hr)	44.3	17.6	44.2	17.8
uNDF (12 hr)	81.8	32.5		
uNDF (30 hr)	59.7	23.7	59.7	24.1
uNDF (120 hr)	57.4	22.8	57.6	23.2
uNDF (240 hr)	55.7	22.1	55.8	22.5

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		23.8	7.3
Water Soluble CHO (WSC-Sugar)			10.1
Starch		0.6	0.2
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.19
Fatty Acids, Total			1.19
C16:0			0.36
C18:0			0.06
C18:1			0.03
C18:2			0.19
C18:3			0.39
Unsaturated Fatty Acids (RUFAL)			0.61
Fatty Acids (%Fat)			54.3

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM)	8.09
Calcium (%DM)	1.47
Phosphorus (%DM)	0.25
Magnesium (%DM)	0.37
Potassium (%DM)	2.15
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 low to none
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	60.1
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.62
Net Energy Gain (Mcal/lb)	0.35
ME (Mcal/lb)	1.01
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.17
NDF Dig. Rate (Kd, %HR, uNDF)	5.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	144
Relative Forage Quality (RFQ)	140
Milk per Ton (lbs/ton)	2833
Beef per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	1201
ROM (Residual Organic Matter)	30.04
NFC (Non-Fiber Carbohydrates)(%DM)	30.6
NSC (Non-Structural Carbohydrates) ESC (%DM)	7.5
NSC (Non-Structural Carbohydrates) WSC (%DM)	10.3
DCAD (meq/100gdm)	
Summative Index % (Mass Balance)	

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

