



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: CLAPPERTON RANCH
Desc: TF : ALFALFA/GRASS MIX
Submitter: TNCA BC DAIRY, WEST FORAGES
Account: TNCA BC DAIRY

Copies to: PETERS, JENILEE
HASSAN, DAIM UL

Lab ID: 36008 317
Sampled: 09/15/2024
Arrived: 09/17/2024
Completed: 09/20/2024
Reported: 09/20/2024

TF : ALFALFA/GRASS MIX

SAMPLE INFORMATION

Lab ID: 36008 317 Version: 1.0
Crop Year: Series:
Feed Type: MMG FORAGE Cutting#:
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 12.1
Dry Matter 87.9

PROTEINS	% SP	% CP	% DM
Crude Protein			15.5
Adjusted Protein			15.5
Soluble Protein		27.9	4.3
Ammonia (CPE)	20.3	5.7	0.88
ADF Protein (ADICP)		7.6	1.18
NDF Protein (NDICP)		32.0	4.98
NDR Protein (NDRCP)			
Rumen Degr. Protein		63.9	9.9
Amino Acid Protein, Total			

FIBER	% NDF	% DM
ADF	60.0	33.7
aNDF		56.2
aNDFom		52.2
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	5.18	2.91
NDF Digestibility (12 hr)		
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)		

CARBOHYDRATES	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		30.3	5.7
Water Soluble CHO (WSC-Sugar)			7.4
Starch	13.3		2.5
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			3.56
Fatty Acids, Total			
C16:0			
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) 10.8
Calcium (%DM) 0.75
Phosphorus (%DM) 0.37
Magnesium (%DM) 0.30
Potassium (%DM) 2.84
Sulfur (%DM) 0.28
Sodium (%DM) 0.21
Chloride (%DM)
Iron (PPM) 352.00
Manganese (PPM) 81.00
Zinc (PPM) 26.00
Copper (PPM) 15.00
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) 51.1
Equine DE (Mcal/lb) 1.02
Net Energy Lactation (Mcal/lb) 0.64
Net Energy Maintenance (Mcal/lb) 0.66
Net Energy Gain (Mcal/lb) 0.39
ME (Mcal/lb) 1.05
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 4.4
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 104
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) 18.9
NSC (Non-Structural Carbohydrates) ESC (%DM) 8.2
NSC (Non-Structural Carbohydrates) WSC (%DM) 9.9
DCAD (meq/100gdm)
Summative Index % (Mass Balance)

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



Cumberland Valley Analytical Services, Inc.



4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB