



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: CLAPPERTON RANCH
Desc: 2ND CUT CABIN FIELD GRASS HAY
Submitter: SWIFT, MARYLOU
Account: TROUW NUTRITION CANADA-CHILLIWACK

Copies to:

Lab ID: 30755 053
Sampled: 07/21/2021
Arrived: 07/23/2021
Completed: 07/26/2021
Reported: 07/26/2021

2ND CUT CABIN FIELD GRASS HAY

SAMPLE INFORMATION

Lab ID: 30755 053 Version: 1.0
Crop Year: Series:
Feed Type: FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 7.6
Dry Matter 92.4

PROTEINS

	% SP	% CP	% DM
Crude Protein			14.8
Adjusted Protein			14.8
Soluble Protein		29.3	4.3
Ammonia (CPE)	14.3	4.2	0.62
ADF Protein (ADICP)		6.4	0.94
NDF Protein (NDICP)		24.1	3.56
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Amino Acid Protein, Total			

FIBER

	% NDF	% DM
ADF	60.1	34.6
aNDF		57.7
aNDFom		53.9
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	5.06	2.92
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)		43.0	6.7
Water Soluble CHO (WSC-Sugar)			8.1
Starch	12.7		2.0
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			4.24
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	11.3
Calcium (%DM)	0.47
Phosphorus (%DM)	0.39
Magnesium (%DM)	0.27
Potassium (%DM)	3.00
Sulfur (%DM)	
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
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

TDN (%DM)	62.1
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.65
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)	4.0
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	100
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	15.5
Non Structural Carbohydrates, ESC (%DM)	8.7
Non Structural Carbohydrates, WSC (%DM)	10.1
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.



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