



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: LETHBRIDGE THERAPEUTIC
Desc: LTRA- TIMOTHY HAY
Submitter: CVAS, ANALYSIS
Account: CVAS ANALYSIS

Copies to: LETHBRIDGE THERAPEUTIC RIDING

Lab ID: 28526 159
Sampled: 07/09/2020
Arrived: 07/10/2020
Completed: 07/10/2020
Reported: 07/10/2020

LTRA- TIMOTHY HAY

SAMPLE INFORMATION

Lab ID: 28526 159 Version: 1.0
Crop Year: Series:
Feed Type: MMG FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 12.1
Dry Matter 87.9

PROTEINS

	% SP	% CP	% DM
Crude Protein			10.5
Adjusted Protein			
Soluble Protein		27.8	2.9
Ammonia (CPE)	4.8	1.3	0.14
ADF Protein (ADICP)		12.8	1.34
NDF Protein (NDICP)		39.3	4.11
NDR Protein (NDRCP)			
Rumen Degr. Protein		63.9	6.7
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			65.5	43.0
aNDF		64.3		65.6
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			10.1	6.64
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	48.7	31.3	47.7	31.3
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	57.4	36.9	56.3	37.0
NDF Digestibility (240 hr)	61.4	39.5	60.2	39.5
uNDF (12 hr)				
uNDF (30 hr)	51.3	33.0	52.3	34.3
uNDF (120 hr)	42.6	27.4	43.7	28.7
uNDF (240 hr)	38.6	24.8	39.8	26.1

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		28.7	5.6
Water Soluble CHO (WSC-Sugar)			14.3
Starch		5.5	1.1
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.27
Fatty Acids, Total			0.67
C16:0			0.22
C18:0			0.03
C18:1			0.07
C18:2			0.12
C18:3			0.11
Unsaturated Fatty Acids (RUFAL)			0.30
Fatty Acids (%Fat)			29.5

MINERALS

Ash (%DM)	6.15
Calcium (%DM)	0.36
Phosphorus (%DM)	0.12
Magnesium (%DM)	0.19
Potassium (%DM)	1.14
Sulfur (%DM)	0.19
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)

Soil Contamination Probability Probable low to none

Nitrate Probability Probable low nitrate level

NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	55.9
Net Energy Lactation (Mcal/lb)	0.57
Net Energy Maintenance (Mcal/lb)	0.54
Net Energy Gain (Mcal/lb)	0.28
ME (Mcal/lb)	0.92
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.15
NDF Dig. Rate (Kd, %HR, uNDF)	4.3
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	79
Relative Forage Quality (RFQ)	105
Milk per Ton (lbs/ton)	2309
Dig. Organic Matter Index (lbs/ton)	1070
Non Fiber Carbohydrates (%DM)	19.60
Non Structural Carbohydrates (%DM)	6.7
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.

