



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: LETHBRIDGE THERAPEUTIC
Desc: RYE GRASS
Submitter: CVAS, ANALYSIS
Account: CVAS ANALYSIS

Copies to: LETHBRIDGE THERAPEUTIC RIDING

Lab ID: 29406 201
Sampled: 01/04/2021
Arrived: 01/05/2021
Completed: 01/05/2021
Reported: 01/05/2021

RYE GRASS

SAMPLE INFORMATION

Lab ID: 29406 201 Version: 1.0
Crop Year: Series:
Feed Type: MMG FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.7
Dry Matter 88.3

PROTEINS

	% SP	% CP	% DM
Crude Protein			6.6
Adjusted Protein			
Soluble Protein		48.3	3.2
Ammonia (CPE)	43.5	21.0	1.38
ADF Protein (ADICP)		8.1	0.53
NDF Protein (NDICP)		15.9	1.04
NDR Protein (NDRCP)			
Rumen Degr. Protein		74.2	4.9
Amino Acid Protein, Total			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			61.6	36.9
aNDF		56.9		59.9
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			7.84	4.69
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	53.6	30.5	50.9	30.4
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	59.2	33.7	56.3	33.7
NDF Digestibility (240 hr)	63.3	36.0	60.1	36.0
uNDF (12 hr)				
uNDF (30 hr)	46.4	26.4	49.2	29.4
uNDF (120 hr)	40.8	23.2	43.7	26.2
uNDF (240 hr)	36.7	20.9	39.9	23.9

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (ESC-Sugar)		42.5	11.5
Water Soluble CHO (WSC-Sugar)			19.3
Starch		4.5	1.2
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.18
Fatty Acids, Total			0.66
C16:0			0.19
C18:0			0.01
C18:1			0.04
C18:2			0.11
C18:3			0.21
Unsaturated Fatty Acids (RUFAL)			0.36
Fatty Acids (%Fat)			30.3

MINERALS

Ash (%DM)	5.46
Calcium (%DM)	0.24
Phosphorus (%DM)	0.07
Magnesium (%DM)	0.09
Potassium (%DM)	0.54
Sulfur (%DM)	0.13
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
Nitrate Probability	Probable low nitrate level
NIR Statistical Confidence	Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM)	61.1
Net Energy Lactation (Mcal/lb)	0.62
Net Energy Maintenance (Mcal/lb)	0.64
Net Energy Gain (Mcal/lb)	0.37
ME (Mcal/lb)	1.03
AA Protein as % of Total Protein	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.12
NDF Dig. Rate (Kd, %HR, uNDF)	4.9
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	94
Relative Forage Quality (RFQ)	106
Milk per Ton (lbs/ton)	2575
Dig. Organic Matter Index (lbs/ton)	1203
Non Fiber Carbohydrates (%DM)	27.0
Non Structural Carbohydrates (%DM)	12.7
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.

