



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: INTERIOR - BARRIERE
Desc: GRASS MIX
Submitter: COWLAND, CHRIS
Account: SPROUT MEADOWS ENTERPRISE LTD.

Copies to:

Lab ID: 27018 012
Sampled: 09/17/2019
Arrived: 09/20/2019
Completed: 09/20/2019
Reported: 09/20/2019

GRASS MIX

SAMPLE INFORMATION

Lab ID: 27018 012 Version: 1.0
Crop Year: 2019 Series:
Feed Type: GRASS FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 11.2
Dry Matter 88.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			8.8
Adjusted Protein		98.5	8.7
Soluble Protein		34.4	3.0
Ammonia (CPE)	26.7	9.2	0.81
ADF Protein (ADICP)		11.5	1.01
NDF Protein (NDICP)		28.8	2.54
NDR Protein (NDRCP)			
Rumen Degr. Protein		67.2	5.9

FIBER

	% NDF	% DM
ADF	61.8	38.7
aNDF		62.6
aNDFom		59.0
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	8.76	5.48
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 (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (ESC-Sugar)		35.6	7.5
Water Soluble CHO (WSC-Sugar)			11.6
Starch	4.6		1.0
Soluble Starch			
Soluble Fiber			
Starch Dig. (7'hr, 4 mm)			
Crude Fat			2.39
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM)	7.64
Calcium (%DM)	0.42
Phosphorus (%DM)	0.20
Magnesium (%DM)	0.19
Potassium (%DM)	1.61
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	
Equine TDN (%DM)	45
Equine DE (mcal/lb)	0.90
Net Energy Lactation (Mcal/lb)	0.59
Net Energy Maintenance (Mcal/lb)	0.35
Net Energy Gain (Mcal/lb)	0.11
ME (Mcal/lb)	2.1
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.2
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	87
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	21.10
Non Structural Carbohydrates (%DM)	12.6
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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