

CUMBERLAND VALLEY ANALYTICAL SERVICES

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



ALFALFA TIMOTHY ORCHARD

Farm: INTERIOR - BARRIER
 Desc: ALFALFA TIMOTHY ORCHARD
 Submitter: COWLAND, CHRIS
 Account: SPROUT MEADOWS ENTERPRISE LTD.

Lab ID: 27018 011
 Sampled: 09/17/2019
 Arrived: 09/20/2019
 Completed: 09/20/2019
 Reported: 09/20/2019

Copies to:

SAMPLE INFORMATION	
Lab ID:	27018 011
Version:	1.0
Series:	2019
Feed Type:	MIXED FORAGE
Package:	BASIC NIR
NIR ANALYSIS RESULTS	
Moisture	13.9
Dry Matter	86.1
PROTEINS	
Crude Protein	14.7
Adjusted Protein	14.7
Soluble Protein	32.1
Ammonia (CPE)	0.1
ADF Protein (ADICP)	8.2
NDF Protein (NDICP)	26.2
Rumen Degr. Protein	66.1
FIBER	
ADF	32.3
aNDF	52.2
aNDFom	48.4
NDR (NDF w/o sulfite)	48.4
Crude Fiber	4.21
Lignin	8.06
NDF Digestibility (12 hr)	61.8
NDF Digestibility (24 hr)	61.8
NDF Digestibility (30 hr)	61.8
NDF Digestibility (72 hr)	61.8
NDF Digestibility (120 hr)	61.8
NDF Digestibility (240 hr)	61.8
CARBOHYDRATES	
Ethanol Soluble CHO (ESC-Sugar)	36.6
Water Soluble CHO (WSC-Sugar)	8.6
Starch	9.8
Soluble Starch	2.3
Starch Dig. (7 hr, 4 mm)	3.25
Crude Fat	3.25
Fatty Acids, Total	3.25
C16:0	
C18:0	
C18:1	
C18:2	
C18:3	
Unsaturated Fatty Acids (RUFAL)	
Fatty Acids (%Fat)	

MINERALS	
Ash (%DM)	10.2
Calcium (%DM)	0.65
Phosphorus (%DM)	0.31
Magnesium (%DM)	0.23
Potassium (%DM)	3.07
Sulfur (%DM)	0.23
Sodium (%DM)	0.23
Chloride (%DM)	0.23
Iron (PPM)	0.23
Manganese (PPM)	0.23
Zinc (PPM)	0.23
Copper (PPM)	0.23
Molybdenum (PPM)	0.23
ENERGY & INDEX CALCULATIONS	
pH	51.8
Equine TDN (%DM)	52.2
Equine DE (mcal/lb)	1.04
Net Energy Lactation (Mcal/lb)	0.64
Net Energy Maintenance (Mcal/lb)	0.45
Net Energy Gain (Mcal/lb)	0.20
ME (Mcal/lb)	2.3
NDF Dig. Rate (Kd, %HR, UNDF)	5.0
Starch Dig. Rate (Kd, %HR, Mertens)	114
Relative Feed Value (RFV)	114
Relative Forage Quality (RFQ)	114
Milk per Ton (lbs/ton)	13.9
Dig. Organic Matter Index (lbs/ton)	23.50
Non Fiber Carbohydrates (%DM)	13.9
Non Structural Carbohydrates (%DM)	13.9
DCAD (meq/100gdm)	13.9
Summative Index % (Mass Balance)	13.9

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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