



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **SUNRISE FARM**
Desc: **TIMOTHY MIX LOCAL**
Submitter: **COWLAND, CHRIS**
Account: **SPROUT MEADOWS ENTERPRISE LTD.**

Copies to:

Lab ID: **26889 008**
Sampled: **08/21/2019**
Arrived: **08/26/2019**
Completed: **08/27/2019**
Reported: **08/27/2019**

TIMOTHY MIX LOCAL

SAMPLE INFORMATION			
Lab ID:	26889 008	Version:	1.0
Crop Year:	2019	Series:	
Feed Type:	GRASS FORAGE	Cutting#:	1
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	15.9
Dry Matter	84.1

PROTEINS	% SP	% CP	% DM
Crude Protein			9.1
Adjusted Protein		96.8	8.8
Soluble Protein		37.8	3.4
Ammonia (CPE)			
ADF Protein (ADICP)		13.2	1.20
NDF Protein (NDICP)		23.8	2.16
NDR Protein (NDRCP)			
Rumen Degr. Protein		68.9	6.3

FIBER	% NDF	% DM
ADF	57.9	36.2
aNDF		62.4
aNDFom		60.7
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	8.68	5.42
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)		33.4	7.0
Water Soluble CHO (WSC-Sugar)			13.1
Starch	2.3		0.5
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.89
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	6.78
Calcium (%DM)	0.37
Phosphorus (%DM)	0.20
Magnesium (%DM)	0.21
Potassium (%DM)	1.97
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
pH	
Equine TDN (%DM)	46.1
Equine DE (Mcal/lb)	0.92
Net Energy Lactation (Mcal/lb)	0.61
Net Energy Maintenance (Mcal/lb)	0.37
Net Energy Gain (Mcal/lb)	0.13
ME (Mcal/lb)	2.2
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)	91
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	21.00
Non Structural Carbohydrates (%DM)	13.6
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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