



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: FVHB
Desc: ALFALFA
Submitter: CLEARBROOK GRAIN & MILLING, CLEARBROOK
Account: CLEARBROOK GRAIN & MILLING

Copies to:

Lab ID: 28074 002
Sampled: 02/29/2020
Arrived: 03/02/2020
Completed: 03/03/2020
Reported: 03/03/2020

ALFALFA

SAMPLE INFORMATION			
Lab ID:	28074 002	Version:	1.0
Crop Year:		Series:	
Feed Type:	LEGUME FORAGE	Cutting#:	
Package:	BASIC NIR		

NIR ANALYSIS RESULTS	
Moisture	10.1
Dry Matter	89.9

PROTEINS	% SP	% CP	% DM
Crude Protein			15.8
Adjusted Protein			15.8
Soluble Protein		34.4	5.4
Ammonia (CPE)	12.7	4.4	0.69
ADF Protein (ADICP)		6.6	1.04
NDF Protein (NDICP)		16.9	2.67
NDR Protein (NDRCP)			
Rumen Degr. Protein		67.2	10.6
Amino Acid Nitrogen, Total			

FIBER	% NDF	% DM
ADF	66.1	35.3
aNDF		53.4
aNDFom		52.6
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	8.99	4.80
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)		36.5	6.9
Water Soluble CHO (WSC-Sugar)			8.9
Starch		2.0	0.4
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			2.91
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS	
Ash (%DM)	11.8
Calcium (%DM)	0.68
Phosphorus (%DM)	0.31
Magnesium (%DM)	0.24
Potassium (%DM)	3.78
Sulfur (%DM)	
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS	
Equine TDN (%DM)	48.6
Equine DE (Mcal/lb)	0.97
Net Energy Lactation (Mcal/lb)	0.59
Net Energy Maintenance (Mcal/lb)	0.38
Net Energy Gain (Mcal/lb)	0.14
ME (Mcal/lb)	1
AA Nitrogen as % Total Nitrogen	
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	4.8
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	107
Relative Forage Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	18.80
Non Structural Carbohydrates (%DM)	9.3
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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