



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: STEBNS HOUSE 400
Desc: ALFALFA
Submitter: BROOK, ADEN
Account: AGRI SALES USA, INC.

Copies to:

Lab ID: 22369 150
Sampled:
Arrived: 07/11/2017
Completed: 07/11/2017
Reported: 10/08/2017

ALFALFA

SAMPLE INFORMATION

Lab ID: 22369 150 Version: 1.0
Crop Year: 2017 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 12.1
Dry Matter 87.9

PROTEINS

	% SP	% CP	% DM
Crude Protein			16.9
Adjusted Protein			
Soluble Protein		41.4	7.0
Ammonia (CPE)	16.9	7.0	1.18
ADF Protein (ADICP)		9.4	1.59
NDF Protein (NDICP)		15.8	2.67
NDR Protein (NDRCP)			
Rumen Degr. Protein		70.7	11.9
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			84.5	34.3
aNDF		39.4		40.6
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			18.9	7.68
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	41.7	16.4	40.3	16.3
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	47.7	18.8	46.3	18.8
NDF Digestibility (240 hr)	50.5	19.9	48.8	19.8
uNDF (30 hr)	58.4	23.0	59.7	24.2
uNDF (120 hr)	52.3	20.6	53.7	21.8
uNDF (240 hr)	49.5	19.5	51.2	20.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		23.3	7.8
Water Soluble CHO (Sugar)			
Starch		6.6	2.2
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			0.89
Fatty Acids (%Fat)			41.0
Crude Fat			2.17

MINERALS

Ash (%DM)	9.84
Calcium (%DM)	1.67
Phosphorus (%DM)	0.19
Magnesium (%DM)	0.29
Potassium (%DM)	2.22
Sulfur (%DM)	0.24
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

Total VFA (%DM)	
Lactic Acid (%DM)	
Lactic as % of Total VFA	
Acetic Acid (%DM)	
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	
Soil Contamination Probability	Probable low to none
Nitrate Probability	Probable low nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	60.2
Net Energy Lactation (Mcal/lb)	0.60
Net Energy Maintenance (Mcal/lb)	0.58
Net Energy Gain (Mcal/lb)	0.32
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.13
NDF Dig. Rate (Kd, %HR, uNDF)	7.18
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	143
Relative Feed Quality (RFQ)	132
Milk per Ton (lbs/ton)	2725
Dig. Organic Matter Index (lbs/ton)	1159
Non Fiber Carbohydrates (%DM)	33.3
Non Structural Carbohydrates (%DM)	10.0
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	8.6
Summative Index % (Mass Balance)	
Additional sample information, source and lab pictures	



Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms



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