



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: ADEN BROOK
Desc: ALFALFA ORCHARD
Submitter: BROOK, ADEN
Account: AGRI SALES USA, INC.

Copies to:

Lab ID: 22084 028
Sampled:
Arrived: 05/26/2017
Completed: 05/26/2017
Reported: 07/03/2017

ALFALFA ORCHARD

SAMPLE INFORMATION

Lab ID: 22084 028 Version: 1.0
Crop Year: 2017 Series:
Feed Type: LEGUME FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 44.5
Dry Matter 55.5

PROTEINS

	% SP	% CP	% DM
Crude Protein			22.8
Adjusted Protein			
Soluble Protein		51.0	11.6
Ammonia (CPE)	5.1	2.6	0.59
ADF Protein (ADICP)		4.7	1.08
NDF Protein (NDICP)		12.3	2.80
NDR Protein (NDRCP)			
Rumen Degr. Protein		75.5	17.2
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			65.3	27.5
aNDF		39.6		42.1
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			8.47	3.57
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	70.8	28.0	66.7	28.1
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	87.2	34.5	81.9	34.5
NDF Digestibility (240 hr)	91.7	36.3	86.3	36.4
uNDF (30 hr)	29.2	11.6	33.4	14.1
uNDF (120 hr)	12.8	5.1	18.1	7.6
uNDF (240 hr)	8.3	3.3	13.7	5.8

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids		5.4	1.3
Ethanol Soluble CHO (Sugar)		46.5	11.1
Water Soluble CHO (Sugar)			
Starch		6.8	1.6
Soluble Fiber		43.4	10.4
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			2.00
Fatty Acids (%Fat)			57.6
Crude Fat			3.47

MINERALS

Ash (%DM)	10.5
Calcium (%DM)	0.75
Phosphorus (%DM)	0.40
Magnesium (%DM)	0.19
Potassium (%DM)	3.78
Sulfur (%DM)	0.28
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

QUALITATIVE

Total VFA (%DM)	1.29
Lactic Acid (%DM)	1.02
Lactic as % of Total VFA	78
Acetic Acid (%DM)	0.27
Butyric Acid (%DM)	
1, 2 Propanediol (%DM)	

Soil Contamination Probability Probable low to none
Nitrate Probability Probable moderate nitrate level
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

pH	5.64
TDN (%DM)	66.4
Net Energy Lactation (Mcal/lb)	0.68
Net Energy Maintenance (Mcal/lb)	0.67
Net Energy Gain (Mcal/lb)	0.41
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	5.34
NDF Dig. Rate (Kd, %HR, uNDF)	4.90
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	149
Relative Feed Quality (RFQ)	202
Milk per Ton (lbs/ton)	3209
Dig. Organic Matter Index (lbs/ton)	838
Non Fiber Carbohydrates (%DM)	23.9
Non Structural Carbohydrates (%DM)	12.7
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	2.4
Summative Index % (Mass Balance)	100.6
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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