



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: ADEN BROOK
Desc: OG17-MFI ORCHARD GRASS
Submitter: BROOK, ADEN
Account: AGRI SALES USA, INC.

Copies to:

Lab ID: 22416 062
Sampled:
Arrived: 07/19/2017
Completed: 07/19/2017
Reported: 10/08/2017

OG17-MFI ORCHARD GRASS

SAMPLE INFORMATION

Lab ID: 22416 062 Version: 1.0
Crop Year: 2017 Series:
Feed Type: ORCHARD GRASS Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 18.2
Dry Matter 81.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			20.5
Adjusted Protein			
Soluble Protein		26.9	5.5
Ammonia (CPE)	19.7	5.3	1.09
ADF Protein (ADICP)		8.2	1.68
NDF Protein (NDICP)		28.6	5.87
NDR Protein (NDRCP)			
Rumen Degr. Protein		63.5	13.0
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			55.4	32.3
aNDF		56.7		58.4
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			7.57	4.42
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	67.8	38.4	65.7	38.3
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	80.1	45.4	77.7	45.3
NDF Digestibility (240 hr)	84.2	47.7	81.7	47.7
uNDF (30 hr)	32.2	18.3	34.3	20.0
uNDF (120 hr)	19.9	11.3	22.3	13.0
uNDF (240 hr)	15.8	9.0	18.3	10.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		44.8	7.8
Water Soluble CHO (Sugar)			
Starch		6.5	1.1
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			2.16
Fatty Acids (%Fat)			53.1
Crude Fat			4.07

MINERALS

Ash (%DM)	5.48
Calcium (%DM)	0.71
Phosphorus (%DM)	0.35
Magnesium (%DM)	0.40
Potassium (%DM)	1.80
Sulfur (%DM)	0.35
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 moderate nitrate level
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	67.0
Net Energy Lactation (Mcal/lb)	0.69
Net Energy Maintenance (Mcal/lb)	0.69
Net Energy Gain (Mcal/lb)	0.42
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.88
NDF Dig. Rate (Kd, %HR, uNDF)	5.30
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	102
Relative Feed Quality (RFQ)	172
Milk per Ton (lbs/ton)	3441
Dig. Organic Matter Index (lbs/ton)	1218
Non Fiber Carbohydrates (%DM)	17.4
Non Structural Carbohydrates (%DM)	8.9
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	4.4
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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