



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **BROOK, ADEN**
Desc: **TIMOTHY GRASS MIX LB1**
Submitter: **BROOK, ADEN**
Account: **AGRI SALES USA, INC.**

Copies to:

Lab ID: **20734 112**
Sampled:
Arrived: **09/28/2016**
Completed: **10/06/2016**
Reported: **10/07/2016**

TIMOTHY GRASS MIX LB1

SAMPLE INFORMATION

Lab ID: 20734 112 Version: 2.0
Crop Year: 2016 Series:
Feed Type: MMG FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 14.7
Dry Matter 85.3

PROTEINS

	% SP	% CP	% DM
Crude Protein			8.0
Adjusted Protein			
Soluble Protein		29.1	2.3
Ammonia (CPE)	79.1	23.0	1.85
ADF Protein (ADICP)		17.7	1.42
NDF Protein (NDICP)		28.1	2.26
NDR Protein (NDRCP)			
Rumen Degr. Protein		64.6	5.2
Rumen Deg. CP (Strep.G)			

FIBER

	% NDFom	NDFom %DM	% NDF	% DM
ADF			63.6	40.5
aNDF		61.2		63.7
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			11.5	7.35
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	46.1	28.2	44.3	28.2
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	52.0	31.8	49.9	31.8
NDF Digestibility (240 hr)	55.6	34.0	53.3	34.0
uNDF (30 hr)	53.9	33.0	55.7	35.5
uNDF (120 hr)	48.0	29.4	50.1	31.9
uNDF (240 hr)	44.4	27.2	46.7	29.7

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (Sugar)		43.5	10.4
Water Soluble CHO (Sugar)			
Starch		12.2	2.9
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			0.99
Fatty Acids (%Fat)			40.9
Crude Fat			2.42

MINERALS

Ash (%DM) 4.17
Calcium (%DM) 0.71
Phosphorus (%DM) 0.20
Magnesium (%DM) 0.21
Potassium (%DM) 0.81
Sulfur (%DM) 0.15
Sodium (%DM)
Chloride (%DM)

Iron (PPM)
Manganese (PPM)
Zinc (PPM)
Copper (PPM)
Nitrate Ion (%DM)

Selenium (PPM)

Molybdenum (PPM)

0.02

QUALITATIVE

Total VFA (%DM)
Lactic Acid (%DM)
Lactic as % of Total VFA
Acetic Acid (%DM)
Butyric Acid (%DM)
1, 2 Propanediol (%DM)
Titratable Acidity (meq/100gm)

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) 58.5
Net Energy Lactation (mcal/lb) 0.59
Net Energy Maintenance (mcal/lb) 0.56
Net Energy Gain (mcal/lb) 0.30
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 3.02
NDF Dig. Rate (Kd, %HR, uNDF) 4.55
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 84
Relative Feed Quality (RFQ) 108
Milk per Ton (lbs/ton) 2430
Dig. Organic Matter Index (lbs/ton) 1029
Non Fiber Carbohydrates (%DM) 23.9
Non Structural Carbohydrates (%DM) 13.3
DCAD (meq/100gdm)
CNCPS / CPM Lignin Factor 12.4
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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Additional Memo

Water Soluble Carbohydrates = 12.08% of DM



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