



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: BROCK, ADEN
Desc: GRASS 2ND 3X4 EAGER
Submitter: BROOK, ADEN
Account: AGRI SALES USA, INC.

Copies to:

Lab ID: 20653 103
Sampled:
Arrived: 09/12/2016
Completed: 09/12/2016
Reported: 09/23/2016

GRASS 2ND 3X4 EAGER

SAMPLE INFORMATION

Lab ID: 20653 103 Version: 2.0
Crop Year: 2016 Series:
Feed Type: GRASS FORAGE Cutting#:
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 14.4
Dry Matter 85.6

PROTEINS

	% SP	% CP	% DM
Crude Protein			16.1
Adjusted Protein			
Soluble Protein		24.3	3.9
Ammonia (CPE)			
ADF Protein (ADICP)		10.7	1.73
NDF Protein (NDICP)		42.3	6.81
NDR Protein (NDRCP)			
Rumen Degr. Protein		62.2	10.0
Rumen Deg. CP (Strep.G)			

FIBER

	%NDFom %DM	NDFom %DM	% NDF	% DM
ADF			59.0	37.4
aNDF		59.0		63.4
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			7.12	4.51
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	61.4	36.2	57.1	36.2
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	70.4	41.5	65.5	41.5
NDF Digestibility (240 hr)	76.0	44.8	70.7	44.8
uNDF (30 hr)	38.6	22.8	42.9	27.2
uNDF (120 hr)	29.6	17.5	34.5	21.9
uNDF (240 hr)	24.0	14.2	29.3	18.6

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		46.1	6.9
Water Soluble CHO (Sugar)			
Starch		21.5	3.2
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.45
Fatty Acids (%Fat)			43.2
Crude Fat			3.36

MINERALS

Ash (%DM)	9.00
Calcium (%DM)	0.79
Phosphorus (%DM)	0.61
Magnesium (%DM)	0.34
Potassium (%DM)	4.27
Sulfur (%DM)	0.28
Sodium (%DM)	0.08
Chloride (%DM)	
Iron (PPM)	194
Manganese (PPM)	89
Zinc (PPM)	39
Copper (PPM)	15
Nitrate Ion (%DM)	
Selenium (PPM)	0.08
Molybdenum (PPM)	

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 moderate nitrate level
NIR Statistical Confidence	Excellent prediction potential

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	61.3
Net Energy Lactation (mcal/lb)	0.62
Net Energy Maintenance (mcal/lb)	0.60
Net Energy Gain (mcal/lb)	0.34
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	3.65
NDF Dig. Rate (Kd, %HR, uNDF)	4.00
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	88
Relative Feed Quality (RFQ)	135
Milk per Ton (lbs/ton)	2747
Dig. Organic Matter Index (lbs/ton)	1093
Non Fiber Carbohydrates (%DM)	15.0
Non Structural Carbohydrates (%DM)	10.1
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	7.7
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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