



# CUMBERLAND VALLEY ANALYTICAL SERVICES

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

**Farm:** ADEN BROOK  
**Desc:** TRITICALE  
**Submitter:** BROOK, ADEN  
**Account:** AGRI SALES USA, INC.

**Copies to:**

**Lab ID:** 22084 029  
**Sampled:**  
**Arrived:** 05/26/2017  
**Completed:** 05/26/2017  
**Reported:** 08/08/2017

## TRITICALE

### SAMPLE INFORMATION

Lab ID: 22084 029      Version: 1.0  
Crop Year: 2017      Series:  
Feed Type: TRITICALE FORAGE      Cutting#: 1  
Package: BASIC NIR

### NIR ANALYSIS RESULTS

Moisture 48.8  
Dry Matter 51.2

### PROTEINS

	% SP	% CP	% DM
Crude Protein			20.6
Adjusted Protein			
Soluble Protein		58.2	12.0
Ammonia (CPE)			
ADF Protein (ADICP)		3.5	0.73
NDF Protein (NDICP)		14.2	2.92
NDR Protein (NDRCP)			
Rumen Degr. Protein		79.1	16.3
Rumen Deg. CP (Strep.G)			

### FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			64.5	31.0
aNDF		45.1		48.0
NDR (NDF w/o sulfite)				
peNDF				
Crude Fiber				
Lignin			6.71	3.22
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	71.6	32.3	67.4	32.3
NDF Digestibility (48 hr)				
NDF Digestibility (120 hr)	78.0	35.2	73.3	35.2
NDF Digestibility (240 hr)	82.0	37.0	77.1	37.0
uNDF (30 hr)	28.4	12.8	32.6	15.7
uNDF (120 hr)	22.0	9.9	26.7	12.8
uNDF (240 hr)	18.0	8.1	22.9	11.0

### CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids		4.9	1.0
Ethanol Soluble CHO (Sugar)		48.0	9.5
Water Soluble CHO (Sugar)			
Starch		8.0	1.6
Soluble Fiber		24.3	4.82
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			1.66
Fatty Acids (%Fat)			46.5
Crude Fat			3.57

### MINERALS

Ash (%DM)	10.9
Calcium (%DM)	0.42
Phosphorus (%DM)	0.44
Magnesium (%DM)	0.16
Potassium (%DM)	3.31
Sulfur (%DM)	0.27
Sodium (%DM)	
Chloride (%DM)	
Iron (PPM)	
Manganese (PPM)	
Zinc (PPM)	
Copper (PPM)	
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

### QUALITATIVE

Total VFA (%DM)	0.98
Lactic Acid (%DM)	0.98
Lactic as % of Total VFA	102
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	5.40
TDN (%DM)	65.0
Net Energy Lactation (Mcal/lb)	0.66
Net Energy Maintenance (Mcal/lb)	0.66
Net Energy Gain (Mcal/lb)	0.39
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	4.88
NDF Dig. Rate (Kd, %HR, uNDF)	6.45
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	126
Relative Feed Quality (RFQ)	152
Milk per Ton (lbs/ton)	3200
Dig. Organic Matter Index (lbs/ton)	752
Non Fiber Carbohydrates (%DM)	19.8
Non Structural Carbohydrates (%DM)	11.1
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	4.6
Summative Index % (Mass Balance)	97.1
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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