



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Type: SHELLED CORN
Farm: PAT OBRIEN + SONS
Desc: STEAM FLAKED CORN
O'BRIEN PAT
PAT O'BRIEN AND SONS, INC.

Copies to: O'BRIEN, ALEXANDRA
O'BRIEN, ALLIE
BOYCE, CHRIS
Regression: OH

Lab ID: 16156 110
Sampled: 04/22/2014
Arrived: 04/25/2014
Completed: 04/30/2014
Reported: 05/02/2014

STEAM FLAKED CORN

SAMPLE INFORMATION

Lab ID: 16156 110 Series:
Crop Year: 2013 Version: 2.0
Cutting#:
Feed Type: SHELLED CORN

CHEMISTRY ANALYSIS RESULTS

Moisture 14.2
Dry Matter 85.8

PROTEINS

	% SP	% CP	% DM
Crude Protein			7.0
Adjusted Protein			7.0
Soluble Protein	2.6		0.2
Ammonia			
ADF Protein (ADICP)	10.3		0.72
NDF Protein (NDICP)	12.8		0.90
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF	42.7	4.0
aNDF		9.3
aNDFom		
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin	23.28	2.17
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Silage Acids			
Ethanol Soluble CHO (Sugar)		2.4	1.9
Water soluble CHO (Sugar)			
Starch		91.9	73.9
Soluble Fiber			
Starch Digestibility (7 hr)	72.1		
Fatty Acids, Total (%DM)			
Crude Fat			2.71
Acid Hydrolysis Fat			

Definitions and explanation of report terms



MINERALS

Ash (%DM)	1.46
Calcium (%DM)	0.21
Phosphorus (%DM)	0.19
Magnesium (%DM)	0.07
Potassium (%DM)	0.29
Sulfur (%DM)	0.11
Sodium (%DM)	0.011
Chloride (%DM)	0.06
Iron (PPM)	31
Manganese (PPM)	10
Zinc (PPM)	16
Copper (PPM)	1
Molybdenum (PPM)	
Selenium (PPM)	
Nitrate Ion (%DM)	

FERMENTATION

pH

Total VFA

Lactic Acid (%DM)

Lactic as % of Total VFA

Acetic Acid (%DM)

Propionic Acid (%DM)

Butyric Acid (%DM)

Isobutyric Acid (%DM)

Titrateable Acidity (meq/100gm)

1, 2 Propanediol (%DM)

ENERGY & INDEX CALCULATIONS

TDN (%DM)	84.2
Net Energy Lactation (mcal/lb)	0.89
Schwab/Shaver NEL (Processed)	
Schwab/Shaver NEL (Unprocessed)	
Net Energy Maintenance (mcal/lb)	0.94
Net Energy Gain (mcal/lb)	0.64
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, Van Amburgh, iNDF)	
Relative Feed Value (RFV)	
Relative Feed Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	80.4
Non Structural Carbohydrates (%DM)	75.8
DCAD (meq/100gdm)	-0.5

Additional sample information, source and lab pictures



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Additional Memo

7 hour invitro starch degradability = 72.1% of starch

24 hour invitro starch degradability = 98.5% of starch



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