


**SAMPLE INFORMATION**

Lab ID: Version: 1.0  
Crop Year: Series:  
Feed Type: SHELLED CORN Cutting#:  
Package: BASIC NIR

**NIR ANALYSIS RESULTS**

Moisture 25.7  
Dry Matter 74.3

PROTEINS	% SP	% CP	% DM
Crude Protein			10.5
Adjusted Protein			10.5
Soluble Protein		39.1	4.1
Ammonia (CPE)	17.3	6.7	0.71
ADF Protein (ADICP)		2.9	0.31
NDF Protein (NDICP)		6.3	0.66
NDR Protein (NDRCP)			
Rumen Degr. Protein			
Amino Acid Protein, Total			

FIBER	%NDFom	NDFom %DM	% NDF	% DM
ADF			38.0	4.4
aNDF				11.6
NDR (NDF w/o sulfite)				
Crude Fiber			17.1	2.0
Lignin			20.4	2.36
NDF Digestibility (12 hr)				
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)				
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)				
NDF Digestibility (240 hr)				
uNDF (12 hr)				
uNDF (30 hr)				
uNDF (120 hr)				
uNDF (240 hr)				

CARBOHYDRATES	% Starch	% NFC	% DM
Silage Acids		1.9	1.3
Ethanol Soluble CHO (ESC-Sugar)		2.4	1.7
Water Soluble CHO (WSC-Sugar)		1.2	2.4
Starch		98.8	69.1
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)	38.7		
Crude Fat			6.72
Fatty Acids, Total			6.52
C16:0			0.95
C18:0			0.12
C18:1			1.75
C18:2			3.63
C18:3			0.08
Unsaturated Fatty Acids (RUFAL)			5.46
Fatty Acids (%Fat)			97.0

Values in bold were analyzed by wet chemistry methods.

**MINERALS**

Ash (%DM) 1.90  
Calcium (%DM)  
Phosphorus (%DM) 0.40  
Magnesium (%DM) 0.18  
Potassium (%DM) 0.48  
Sulfur (%DM) 0.13  
Sodium (%DM)  
Chloride (%DM)  
Iron (PPM)  
Manganese (PPM)  
Zinc (PPM)  
Copper (PPM)  
Molybdenum (PPM)

**QUALITATIVE**

pH 4.22  
Total VFA (%DM) 1.32  
Lactic Acid (%DM) 0.36  
Lactic as % of Total VFA 27  
Acetic Acid (%DM) 0.96  
Butyric Acid (%DM)  
1, 2 Propanediol (%DM)  
Nitrate Ion (%DM)  
Nitrate-Nitrogen, ppm

Soil Contamination Probability  
NIR Statistical Confidence Good prediction potential

**ENERGY & INDEX CALCULATIONS**

TDN (%DM) 88.7  
Net Energy Lactation (Mcal/kg) 2.05  
Net Energy Maintenance (Mcal/kg) 2.43  
Net Energy Gain (Mcal/kg) 1.71  
ME (Mcal/kg) 3.5  
AA Protein as % of Total Protein  
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin\*2.4)  
NDF Dig. Rate (Kd, %HR, uNDF)  
Starch Dig. Rate (Kd, %HR, Mertens) 7.4  
Relative Feed Value (RFV)  
Relative Forage Quality (RFQ)  
Milk per Ton (kg/tonne)  
Beef per Ton (kg/tonne)  
Dig. Organic Matter Index (kg/tonne)  
NFC (Non-Fiber Carbohydrates)(%DM) 70.0  
NSC (Non-Structural Carbohydrates) ESC (%DM) 70.8  
NSC (Non-Structural Carbohydrates) WSC (%DM) 71.5  
DCAD (meq/100gdm)  
Summative Index % (Mass Balance) 102.3

Additional sample information, submitted documents and lab pictures linked to QR code

