


SAMPLE INFORMATION

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

NIR ANALYSIS RESULTS

Moisture 61.4
Dry Matter 38.6

PROTEINS % SP % CP % DM

Crude Protein 8.5
Adjusted Protein 8.5
Soluble Protein 53.3 4.5
Ammonia (CPE) 15.5 8.3 0.70
ADF Protein (ADICP) 9.2 0.78
NDF Protein (NDICP) 11.6 0.98
NDR Protein (NDRCP)
Rumen Degr. Protein 76.7 6.5
Amino Acid Protein, Total 59.0 5.00

FIBER %NDFom NDFom % DM

ADF 59.0 25.2
aNDF 42.1 42.7
NDR (NDF w/o sulfite)
Crude Fiber
Lignin 7.11 3.04
NDF Digestibility (12 hr) 38.4 16.2 39.2 16.6
NDF Digestibility (24 hr)
NDF Digestibility (30 hr) 60.6 25.5 60.3 25.8
NDF Digestibility (72 hr)
NDF Digestibility (120 hr) 71.1 29.9 70.4 30.1
NDF Digestibility (240 hr) 74.2 31.2 73.5 31.4
uNDF (12 hr) 61.6 25.9
uNDF (30 hr) 39.4 16.6 39.7 17.0
uNDF (120 hr) 28.9 12.2 29.6 12.6
uNDF (240 hr) 25.8 10.9 26.5 11.3

CARBOHYDRATES % Starch % NFC % DM

Silage Acids 14.5 6.3
Ethanol Soluble CHO (ESC-Sugar) 2.6 1.1
Water Soluble CHO (WSC-Sugar) 3.3
Starch 68.2 29.5
Soluble Starch
Soluble Fiber 14.4 6.21
Starch Dig. (7 hr, 4 mm) 70.3
Crude Fat 3.19
Fatty Acids, Total 2.32
C16:0 0.42
C18:0 0.05
C18:1 0.39
C18:2 1.17
C18:3 0.23
Unsaturated Fatty Acids (RUFAL) 1.79
Fatty Acids (%Fat) 72.7

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 3.40
Calcium (%DM) 0.16
Phosphorus (%DM) 0.29
Magnesium (%DM) 0.14
Potassium (%DM) 1.37
Sulfur (%DM) 0.13
Sodium (%DM)
Chloride (%DM)
Iron (PPM)
Manganese (PPM)
Zinc (PPM)
Copper (PPM)
Molybdenum (PPM)

QUALITATIVE

pH 3.86
Total VFA (%DM) 6.26
Lactic Acid (%DM) 4.57
Lactic as % of Total VFA 73
Acetic Acid (%DM) 1.69
Butyric Acid (%DM)
1, 2 Propanediol (%DM) 0.61
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 71.8
Net Energy Lactation (Mcal/kg) 1.64
Net Energy Maintenance (Mcal/kg) 1.82
Net Energy Gain (Mcal/kg) 1.19
ME (Mcal/kg) 2.75
AA Protein as % of Total Protein 59.0
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.02
NDF Dig. Rate (Kd, %HR, uNDF) 4.8
Starch Dig. Rate (Kd, %HR, Mertens) 18.4
Relative Feed Value (RFV)
Relative Forage Quality (RFQ)
Milk per Ton (kg/tonne) 1589
Beef per Ton (kg/tonne) 52
Dig. Organic Matter Index (kg/tonne)
ROM (Residual Organic Matter) 13.76
NFC (Non-Fiber Carbohydrates)(%DM) 43.2
NSC (Non-Structural Carbohydrates) ESC (%DM) 30.6
NSC (Non-Structural Carbohydrates) WSC (%DM) 32.8
DCAD (meq/100gdm)
RFC - Fill Index 3.27
Summative Index % (Mass Balance) 99.4

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

