


SAMPLE INFORMATION

Lab ID: Version: 1.0
Crop Year: Series:
Feed Type: LEGUME FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 69.3
Dry Matter 30.7

PROTEINS % SP % CP % DM

Crude Protein 21.0
Adjusted Protein 21.0
Soluble Protein 50.3 10.5
Ammonia (CPE) 14.1 7.1 1.49
ADF Protein (ADICP) 9.4 1.96
NDF Protein (NDICP) 17.2 3.60
NDR Protein (NDRCP)
Rumen Degr. Protein 75.1 15.8
Amino Acid Protein, Total 55.2 11.56

FIBER %NDFom NDFom % NDF % DM

ADF 71.1 38.1
aNDF 52.8 53.6
NDR (NDF w/o sulfite)
Crude Fiber
Lignin 13.8 7.41
NDF Digestibility (12 hr) 42.5 22.5 42.2 23.0
NDF Digestibility (24 hr)
NDF Digestibility (30 hr) 51.2 27.0 50.9 27.3
NDF Digestibility (72 hr)
NDF Digestibility (120 hr) 66.2 34.9 65.6 35.2
NDF Digestibility (240 hr) 69.4 36.6 68.8 36.9
uNDF (12 hr) 57.5 30.4
uNDF (30 hr) 48.8 25.8 49.2 26.3
uNDF (120 hr) 33.8 17.9 34.4 18.4
uNDF (240 hr) 30.6 16.2 31.2 16.7

CARBOHYDRATES % Starch % NFC % DM

Silage Acids 32.2 5.7
Ethanol Soluble CHO (ESC-Sugar) 15.8 2.8
Water Soluble CHO (WSC-Sugar) 1.2 4.1
Starch 0.6 0.1
Soluble Starch
Soluble Fiber 55.7 9.81
Starch Dig. (7 hr, 4 mm)
Crude Fat 3.79
Fatty Acids, Total 1.81
C16:0 0.35
C18:0 0.04
C18:1 0.07
C18:2 0.33
C18:3 0.72
Unsaturated Fatty Acids (RUFAL) 1.12
Fatty Acids (%Fat) 47.8

MINERALS

Ash (%DM) 7.62
Calcium (%DM) 0.89
Phosphorus (%DM) 0.35
Magnesium (%DM) 0.32
Potassium (%DM) 2.62
Sulfur (%DM) 0.34
Sodium (%DM)
Chloride (%DM)
Iron (PPM)
Manganese (PPM)
Zinc (PPM)
Copper (PPM)
Molybdenum (PPM)

QUALITATIVE

pH 5.08
Total VFA (%DM) 5.67
Lactic Acid (%DM) 1.41
Lactic as % of Total VFA 25
Acetic Acid (%DM) 3.16
Butyric Acid (%DM) 1.10
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability Probable low to none
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 58.3
Net Energy Lactation (Mcal/kg) 1.31
Net Energy Maintenance (Mcal/kg) 1.29
Net Energy Gain (Mcal/kg) 0.72
ME (Mcal/kg) 2.15
AA Protein as % of Total Protein 55.2
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.38
NDF Dig. Rate (Kd, %HR, uNDF) 3.9
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 103
Relative Forage Quality (RFQ) 89
Milk per Ton (Mcal/kg) 1363
Beef per Ton (Mcal/kg)
Dig. Organic Matter Index (kg/tonne) 205
ROM (Residual Organic Matter) 15.64
NFC (Non-Fiber Carbohydrates)(%DM) 17.6
NSC (Non-Structural Carbohydrates) ESC (%DM) 2.9
NSC (Non-Structural Carbohydrates) WSC (%DM) 4.2
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 101.4

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

Values in bold were analyzed by wet chemistry methods.

