



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: BRUNSWICK
Desc: GRASS BALAGE FIELD 8
Submitter: BRUNSWICK, TIM
Account: BRUNSWICK DAIRY

Copies to:

Lab ID: 28502 059
Sampled:
Arrived: 05/28/2020
Completed: 05/28/2020
Reported: 05/28/2020

GRASS BALAGE FIELD 8

SAMPLE INFORMATION

Lab ID: 28502 059 Version: 1.0
 Crop Year: 2020 Series:
 Feed Type: GRASS FORAGE Cutting#:
 Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 40.0
 Dry Matter 60.0

PROTEINS % SP % CP % DM

Crude Protein 18.5
 Adjusted Protein
 Soluble Protein 41.2 7.6
 Ammonia (CPE) 7.1 2.9 0.54
 ADF Protein (ADICP) 4.8 0.88
 NDF Protein (NDICP) 22.7 4.19
 NDR Protein (NDRCP)
 Rumen Degr. Protein 70.6 13.0
 Amino Acid Protein, Total

FIBER %NDFom NDFom %DM % NDF % DM

ADF 53.1 23.6
 aNDF 43.2 44.5
 NDR (NDF w/o sulfite)
 Crude Fiber
 Lignin 2.05 0.91
 NDF Digestibility (12 hr)
 NDF Digestibility (24 hr)
 NDF Digestibility (30 hr) 87.8 37.9 85.2 37.9
 NDF Digestibility (72 hr)
 NDF Digestibility (120 hr) 94.3 40.7 91.4 40.6
 NDF Digestibility (240 hr) 99.2 42.8 96.2 42.8
 uNDF (12 hr)
 uNDF (30 hr) 12.2 5.3 14.8 6.6
 uNDF (120 hr) 5.7 2.5 8.6 3.8
 uNDF (240 hr) 0.8 0.4 3.8 1.7

CARBOHYDRATES % Starch % NFC % DM

Silage Acids
 Ethanol Soluble CHO (ESC-Sugar) 60.5 15.9
 Water Soluble CHO (WSC-Sugar) 16.3
 Starch 5.4 1.4
 Soluble Starch
 Soluble Fiber
 Starch Dig. (7 hr, 4 mm)
 Crude Fat 3.57
 Fatty Acids, Total 1.73
 C16:0 0.37
 C18:0 0.03
 C18:1 0.06
 C18:2 0.33
 C18:3 0.85
 Unsaturated Fatty Acids (RUFAL) 1.24
 Fatty Acids (%Fat) 48.5

MINERALS

Ash (%DM) 11.4
 Calcium (%DM) 0.36
 Phosphorus (%DM) 0.39
 Magnesium (%DM) 0.21
 Potassium (%DM) 4.26
 Sulfur (%DM) 0.26
 Sodium (%DM)
 Chloride (%DM)
 Iron (PPM)
 Manganese (PPM)
 Zinc (PPM)
 Copper (PPM)
 Molybdenum (PPM)

QUALITATIVE

pH
 Total VFA (%DM)
 Lactic Acid (%DM)
 Lactic as % of Total VFA
 Acetic Acid (%DM)
 Butyric Acid (%DM)
 1, 2 Propanediol (%DM)
 Nitrate Ion (%DM)
 Soil Contamination Probability Probable low to none
 Nitrate Probability Probable low nitrate level
 NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 70.3
 Net Energy Lactation (Mcal/lb) 0.72
 Net Energy Maintenance (Mcal/lb) 0.73
 Net Energy Gain (Mcal/lb) 0.46
 ME (Mcal/lb) 1.2
 AA Protein as % of Total Protein
 NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 6.32
 NDF Dig. Rate (Kd, %HR, uNDF) 6.1
 Starch Dig. Rate (Kd, %HR, Mertens)
 Relative Feed Value (RFV) 148
 Relative Forage Quality (RFQ) 259
 Milk per Ton (lbs/ton) 3655
 Dig. Organic Matter Index (lbs/ton) 984
 Non Fiber Carbohydrates (%DM) 26.40
 Non Structural Carbohydrates (%DM) 17.3
 DCAD (meq/100gdm)
 Summative Index % (Mass Balance) 93.9

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



Values in bold were analyzed by wet chemistry methods.



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