



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: CLAPPERTON RANCH
Desc: 2ND CUT SOUTH FIELD ALFALFA/GRASS
Submitter: SWIFT, MARYLOU
Account: TROUW NUTRITION CANADA-CHILLIWACK

Copies to:

Lab ID: 30755 056
Sampled: 07/21/2021
Arrived: 07/23/2021
Completed: 07/26/2021
Reported: 07/26/2021

2ND CUT SOUTH FIELD ALFALFA/GRASS

SAMPLE INFORMATION

Lab ID: 30755 056 Version: 1.0
Crop Year: Series:
Feed Type: FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 8.7
Dry Matter 91.3

| PROTEINS | % SP | % CP | % DM |
|---------------------------|------|------|------|
| Crude Protein | | | 18.1 |
| Adjusted Protein | | | 18.1 |
| Soluble Protein | | 31.7 | 5.7 |
| Ammonia (CPE) | 19.0 | 6.0 | 1.09 |
| ADF Protein (ADICP) | | 7.7 | 1.39 |
| NDF Protein (NDICP) | | 22.4 | 4.05 |
| NDR Protein (NDRCP) | | | |
| Rumen Degr. Protein | | | |
| Amino Acid Protein, Total | | | |

| FIBER | % NDF | % DM |
|----------------------------|-------|------|
| ADF | 66.2 | 31.0 |
| aNDF | | 46.8 |
| aNDFom | | 43.9 |
| NDR (NDF w/o sulfite) | | |
| Crude Fiber | | |
| Lignin | 10.7 | 5.00 |
| 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 |
|---------------------------------|----------|-------|------|
| Ethanol Soluble CHO (ESC-Sugar) | | 22.3 | 5.7 |
| Water Soluble CHO (WSC-Sugar) | | | 8.0 |
| Starch | 11.3 | | 2.9 |
| Soluble Starch | | | |
| Soluble Fiber | | | |
| Starch Dig. (7 hr, 4 mm) | | | |
| Crude Fat | | | 3.77 |
| Fatty Acids, Total | | | |
| C16:0 | | | |
| C18:0 | | | |
| C18:1 | | | |
| C18:2 | | | |
| C18:3 | | | |
| Unsaturated Fatty Acids (RUFAL) | | | |
| Fatty Acids (%Fat) | | | |

MINERALS

Ash (%DM) 9.85
Calcium (%DM) 1.03
Phosphorus (%DM) 0.35
Magnesium (%DM) 0.33
Potassium (%DM) 2.81
Sulfur (%DM)
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)
Nitrate-Nitrogen, ppm

Soil Contamination Probability
NIR Statistical Confidence

ENERGY & INDEX CALCULATIONS

TDN (%DM) 62.3
Net Energy Lactation (Mcal/lb) 0.64
Net Energy Maintenance (Mcal/lb) 0.66
Net Energy Gain (Mcal/lb) 0.39
ME (Mcal/lb) 1.05
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)
NDF Dig. Rate (Kd, %HR, uNDF) 6.0
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 129
Relative Forage Quality (RFQ)
Milk per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
Non Fiber Carbohydrates (%DM) 25.5
Non Structural Carbohydrates, ESC (%DM) 8.6
Non Structural Carbohydrates, WSC (%DM) 10.9
DCAD (meq/100gdm)
Summative Index % (Mass Balance)

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



Values in bold were analyzed by wet chemistry methods.



Cumberland Valley Analytical Services, Inc.



4999 Zane A. Miller Drive, Waynesboro, PA 17268
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

