



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: INTERIOR
Desc: 1ST CUT ALF/TIM/ORCHARD
Submitter: COWLAND, CHRIS
Account: SPROUT MEADOWS ENTERPRISE LTD.

Copies to:

Lab ID: 26889 009
Sampled: 08/21/2019
Arrived: 08/26/2019
Completed: 08/27/2019
Reported: 08/27/2019

1ST CUT ALF/TIM/ORCHARD

SAMPLE INFORMATION

| | | | |
|------------|------------|-----------|-----|
| Lab ID: | 26889 009 | Version: | 1.0 |
| Crop Year: | 2019 | Series: | |
| Feed Type: | MMG FORAGE | Cutting#: | 1 |
| Package: | BASIC NIR | | |

NIR ANALYSIS RESULTS

| | |
|------------|------|
| Moisture | 12.0 |
| Dry Matter | 88.0 |

PROTEINS

| | % SP | % CP | % DM |
|---------------------|------|------|------|
| Crude Protein | | | 8.4 |
| Adjusted Protein | | | 8.4 |
| Soluble Protein | | 33.3 | 2.8 |
| Ammonia (CPE) | 17.9 | 6.0 | 0.50 |
| ADF Protein (ADICP) | | 11.4 | 0.96 |
| NDF Protein (NDICP) | | 25.9 | 2.17 |
| NDR Protein (NDRCP) | | | |
| Rumen Degr. Protein | | 66.6 | 5.6 |

FIBER

| | % NDF | % DM |
|----------------------------|-------|------|
| ADF | 63.6 | 37.3 |
| aNDF | | 58.7 |
| aNDFom | | 56.0 |
| NDR (NDF w/o sulfite) | | |
| Crude Fiber | | |
| Lignin | 9.46 | 5.55 |
| 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 (30 hr) | | |
| uNDF (120 hr) | | |
| uNDF (240 hr) | | |

CARBOHYDRATES

| | % Starch | % NFC | % DM |
|---------------------------------|----------|-------|------|
| Ethanol Soluble CHO (ESC-Sugar) | | 34.1 | 8.5 |
| Water Soluble CHO (WSC-Sugar) | | | 12.8 |
| Starch | 5.6 | | 1.4 |
| Soluble Starch | | | |
| Soluble Fiber | | | |
| Starch Dig. (7 hr, 4 mm) | | | |
| Crude Fat | | | 3.02 |
| Fatty Acids, Total | | | |
| C16:0 | | | |
| C18:0 | | | |
| C18:1 | | | |
| C18:2 | | | |
| C18:3 | | | |
| Unsaturated Fatty Acids (RUFAL) | | | |
| Fatty Acids (%Fat) | | | |

MINERALS

| | |
|------------------|------|
| Ash (%DM) | 7.08 |
| Calcium (%DM) | 0.47 |
| Phosphorus (%DM) | 0.20 |
| Magnesium (%DM) | 0.20 |
| Potassium (%DM) | 1.62 |
| Sulfur (%DM) | |
| Sodium (%DM) | |
| Chloride (%DM) | |
| Iron (PPM) | |
| Manganese (PPM) | |
| Zinc (PPM) | |
| Copper (PPM) | |
| Molybdenum (PPM) | |

ENERGY & INDEX CALCULATIONS

| | |
|--|-------|
| pH | |
| Equine TDN (%DM) | 48.1 |
| Equine DE (Mcal/lb) | 0.96 |
| Net Energy Lactation (Mcal/lb) | 0.62 |
| Net Energy Maintenance (Mcal/lb) | 0.41 |
| Net Energy Gain (Mcal/lb) | 0.16 |
| ME (Mcal/lb) | 2.2 |
| NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) | |
| NDF Dig. Rate (Kd, %HR, uNDF) | 4.1 |
| Starch Dig. Rate (Kd, %HR, Mertens) | |
| Relative Feed Value (RFV) | 95 |
| Relative Forage Quality (RFQ) | |
| Milk per Ton (lbs/ton) | |
| Dig. Organic Matter Index (lbs/ton) | |
| Non Fiber Carbohydrates (%DM) | 25.00 |
| Non Structural Carbohydrates (%DM) | 14.2 |
| 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.



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