



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#808**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

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DE KOK, MAKAYLA

Lab ID: **37331 042**
Sampled: **07/08/2025**
Arrived: **07/09/2025**
Completed: **07/10/2025**
Reported: **07/10/2025**

#808

SAMPLE INFORMATION

Lab ID: 37331 042 Version: 1.0
Crop Year: Series:
Feed Type: MMG FORAGE Cutting#:
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 8.2
Dry Matter 91.8

PROTEINS % SP % CP % DM

Crude Protein 9.9
Adjusted Protein 9.9
Soluble Protein 40.1 4.0
Ammonia (CPE) 42.8 17.1 1.69
ADF Protein (ADICP) 11.5 1.13
NDF Protein (NDICP) 26.5 2.61
NDR Protein (NDRCP)
Rumen Degr. Protein 70.0 6.9
Amino Acid Protein, Total

FIBER %NDFom NDFom % NDF % DM

ADF 64.6 39.0
aNDF 58.0 60.4
NDR (NDF w/o sulfite)
Crude Fiber
Lignin 9.33 5.64
NDF Digestibility (12 hr)
NDF Digestibility (24 hr)
NDF Digestibility (30 hr) 53.0 30.7 50.9 30.8
NDF Digestibility (72 hr)
NDF Digestibility (120 hr) 63.3 36.7 60.8 36.7
NDF Digestibility (240 hr) 67.6 39.2 64.9 39.2
uNDF (12 hr)
uNDF (30 hr) 47.0 27.3 49.1 29.7
uNDF (120 hr) 36.7 21.3 39.2 23.7
uNDF (240 hr) 32.4 18.8 35.1 21.2

CARBOHYDRATES % Starch % NFC % DM

Silage Acids
Ethanol Soluble CHO (ESC-Sugar) 31.4 7.3
Water Soluble CHO (WSC-Sugar) 11.9
Starch 8.2 1.9
Soluble Starch
Soluble Fiber
Starch Dig. (7 hr, 4 mm)
Crude Fat 2.31
Fatty Acids, Total 0.94
C16:0 0.20
C18:0 0.02
C18:1 0.04
C18:2 0.19
C18:3 0.31
Unsaturated Fatty Acids (RUFAL) 0.54
Fatty Acids (%Fat) 40.7

MINERALS

Ash (%DM) 6.79
Calcium (%DM) 0.56
Phosphorus (%DM) 0.20
Magnesium (%DM) 0.19
Potassium (%DM) 1.97
Sulfur (%DM) 0.17
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 Probable low to none
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 58.1
Net Energy Lactation (Mcal/lb) 0.59
Net Energy Maintenance (Mcal/lb) 0.58
Net Energy Gain (Mcal/lb) 0.32
ME (Mcal/lb) 0.97
AA Protein as % of Total Protein
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 3.37
NDF Dig. Rate (Kd, %HR, uNDF) 4.3
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 90
Relative Forage Quality (RFQ) 112
Milk per Ton (lbs/ton) 2502
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1211
ROM (Residual Organic Matter) 22.18
NFC (Non-Fiber Carbohydrates)(%DM) 23.2
NSC (Non-Structural Carbohydrates) ESC (%DM) 9.2
NSC (Non-Structural Carbohydrates) WSC (%DM) 13.8
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.

