



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HICKS HAY LLC
Desc: 2ND CUTTING GRASS
Submitter: HICKS, PETER
Account: HICKS HAY CO.

Copies to:

Lab ID: 31897 141
Sampled: 03/21/2022
Arrived: 03/23/2022
Completed: 03/23/2022
Reported: 03/23/2022

2ND CUTTING GRASS

SAMPLE INFORMATION

Lab ID: 31897 141 Version: 1.0
Crop Year: 2021 Series:
Feed Type: GRASS FORAGE Cutting#: 2
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 10.8
Dry Matter 89.2

PROTEINS	% SP	% CP	% DM
Crude Protein			14.6
Adjusted Protein			14.6
Soluble Protein		27.0	3.9
Ammonia (CPE)	5.3	1.4	0.21
ADF Protein (ADICP)		13.0	1.89
NDF Protein (NDICP)		39.1	5.70
NDR Protein (NDRCP)			
Rumen Degr. Protein		63.5	9.3
Amino Acid Protein, Total			

FIBER	% NDF	% DM
ADF	61.6	38.8
aNDF		63.0
aNDFom		58.2
NDR (NDF w/o sulfite)		
Crude Fiber		
Lignin	9.39	5.92
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)		5.4	0.8
Water Soluble CHO (WSC-Sugar)			4.9
Starch		13.5	2.1
Soluble Starch			
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Crude Fat			3.60
Fatty Acids, Total			
C16:0			
C18:0			
C18:1			
C18:2			
C18:3			
Unsaturated Fatty Acids (RUFAL)			
Fatty Acids (%Fat)			

MINERALS

Ash (%DM) 9.22
Calcium (%DM) 0.68
Phosphorus (%DM) 0.33
Magnesium (%DM) 0.29
Potassium (%DM) 2.56
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

Equine TDN (%DM) 46
Equine DE (Mcal/lb) 0.92
Net Energy Lactation (Mcal/lb) 0.57
Net Energy Maintenance (Mcal/lb) 0.55
Net Energy Gain (Mcal/lb) 0.29
ME (Mcal/lb) 0.93
AA Protein as % of Total Protein
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) 87
Relative Forage Quality (RFQ)
Milk per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton)
Non Fiber Carbohydrates (%DM) 15.3
Non Structural Carbohydrates, ESC (%DM) 2.9
Non Structural Carbohydrates, WSC (%DM) 7.0
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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