



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#907 1ST CUT ALFALFA 150X**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

Copies to: **BOON, LAMBERT**

Lab ID: **38328 263**
Sampled: **07/09/2026**
Arrived: **07/10/2026**
Completed: **07/13/2026**
Reported: **07/13/2026**

#907 1ST CUT ALFALFA 150X

SAMPLE INFORMATION

Lab ID: 38328 263 Version: 1.0
Feed Type: LEGUME FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 10.7
Dry Matter 89.3

PROTEINS

	% SP	% CP	% DM
Crude Protein			18.5
Adjusted Protein			18.5
Soluble Protein		45.3	8.4
Ammonia (CPE)	10.2	4.6	0.85
ADF Protein (ADICP)		6.8	1.26
NDF Protein (NDICP)		9.3	1.72
NDR Protein (NDRCP)			
Rumen Degr. Protein		72.7	13.4
Amino Acid Protein, Total		68.0	12.56
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			78.6	33.9
aNDF		41.5		43.1
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			13.9	5.99
NDF Digestibility (12 hr)	37.5	15.6	36.1	16.0
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	50.7	21.0	48.6	20.9
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	56.4	23.4	54.1	23.3
NDF Digestibility (240 hr)	58.8	24.4	56.4	24.3
uNDF (12 hr)	62.5	26.0		
uNDF (24 hr)				
uNDF (30 hr)	49.4	20.5	51.4	22.2
uNDF (120 hr)	43.6	18.1	45.9	19.8
uNDF (240 hr)	41.2	17.1	43.6	18.8

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			29.5	8.0
WSC, Sugar				10.0
Starch			6.2	1.7
Soluble Starch				
Soluble Fiber			52.7	14.3
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.02
Fatty Acids, Total	65.8			1.33
C16:0				0.33
C18:0				0.04
C18:1				0.03
C18:2				0.23
C18:3				0.45
Unsaturated Fatty Acids				0.71

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 10.9
Calcium (%DM) 1.23
Phosphorus (%DM) 0.32
Magnesium (%DM) 0.26
Potassium (%DM) 3.10
Sulfur (%DM) 0.25
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)
Propionic Acid, %DM
Butyric Acid (%DM)
1, 2 Propanediol (%DM)
Nitrate Ion (%DM)
Nitrate-Nitrogen, ppm

Soil Contamination Probability Probable low to none
Soil Contamination (%DM) 7.8
NIR Statistical Confidence Excellent prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 58.2
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 68.0
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 4.04
NDF Dig. Rate (Kd, %HR, uNDF) 5.0
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 135
Relative Forage Quality (RFQ) 139
Milk per Ton (lbs/ton) 2611
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1226
ROM (Residual Organic Matter) 25.91
NFC (Non-Fiber Carbohydrates)(%DM) 27.2
NSC (Non-Structural Carbohydrates) ESC (%DM) 9.7
NSC (Non-Structural Carbohydrates) WSC (%DM) 11.7
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 98.3

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



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