



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: **DEVRY FORAGES**
Desc: **#923 CRESTED WHEAT GRASS**
Submitter: **CVAS, ANALYSIS**
Account: **CVAS ANALYSIS**

Copies to: **NEELS, PETE**
BOON, LAMBERT

Lab ID: **39373 120**
Sampled: **07/26/2026**
Arrived: **07/27/2026**
Completed: **07/28/2026**
Reported: **07/28/2026**

#923 CRESTED WHEAT GRASS

SAMPLE INFORMATION

Lab ID: 39373 120 Version: 1.0
Feed Type: GRASS FORAGE Crop Year:
Package: BASIC NIR Cutting#:

NIR ANALYSIS RESULTS

Moisture 6.7
Dry Matter 93.3

PROTEINS

	% SP	% CP	% DM
Crude Protein			8.4
Adjusted Protein			8.4
Soluble Protein		53.0	4.4
Ammonia (CPE)	18.0	9.5	0.80
ADF Protein (ADICP)		5.6	0.47
NDF Protein (NDICP)		6.4	0.54
NDR Protein (NDRCP)			
Rumen Degr. Protein		76.5	6.4
Amino Acid Protein, Total		64.1	5.38
Lysine			
Methionine			
Isoleucine			
Leucine			
Histidine			
Valine			
Arginine			

FIBER

	%NDFom	NDFom %DM	% NDF	% DM
ADF			63.1	36.6
aNDF		52.7		57.9
NDR (NDF w/o sulfite)				
Crude Fiber				
Lignin			8.74	5.06
NDF Digestibility (12 hr)	19.6	10.3	17.8	10.9
NDF Digestibility (24 hr)				
NDF Digestibility (30 hr)	49.4	26.0	44.9	26.0
NDF Digestibility (72 hr)				
NDF Digestibility (120 hr)	63.6	33.5	57.9	33.5
NDF Digestibility (240 hr)	67.0	35.3	60.9	35.3
uNDF (12 hr)	80.4	42.4		
uNDF (24 hr)				
uNDF (30 hr)	50.7	26.7	55.1	31.9
uNDF (120 hr)	36.4	19.2	42.1	24.4
uNDF (240 hr)	33.0	17.4	39.1	22.6

CARBOHYDRATES

	% Fat	% Starch	% NFC	% DM
Silage Acids				
ESC, Sugar			46.3	11.2
WSC, Sugar				16.1
Starch			7.4	1.8
Soluble Starch				
Soluble Fiber			32.3	7.81
Starch Dig. (7 hr, 4 mm)				
Crude Fat				2.71
Fatty Acids, Total	32.1			0.87
C16:0				0.21
C18:0				0.01
C18:1				0.02
C18:2				0.13
C18:3				0.27
Unsaturated Fatty Acids				0.42

Values in bold were analyzed by wet chemistry methods.

MINERALS

Ash (%DM) 7.20
Calcium (%DM) 0.38
Phosphorus (%DM) 0.11
Magnesium (%DM) 0.15
Potassium (%DM) 1.01
Sulfur (%DM) 0.18
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) 7.4
NIR Statistical Confidence Good prediction potential

ENERGY & INDEX CALCULATIONS

TDN (%DM) 59.9
Net Energy Lactation (Mcal/lb) 0.61
Net Energy Maintenance (Mcal/lb) 0.61
Net Energy Gain (Mcal/lb) 0.35
ME (Mcal/lb) 1.01
AA Protein as % of Total Protein 64.1
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) 2.69
NDF Dig. Rate (Kd, %HR, uNDF) 3.8
Starch Dig. Rate (Kd, %HR, Mertens)
Relative Feed Value (RFV) 97
Relative Forage Quality (RFQ) 103
Milk per Ton (lbs/ton) 2511
Milk per Ton 2024(lbs/ton)
Beef per Ton (lbs/ton)
Dig. Organic Matter Index (lbs/ton) 1234
ROM (Residual Organic Matter) 27.70
NFC (Non-Fiber Carbohydrates)(%DM) 24.2
NSC (Non-Structural Carbohydrates) ESC (%DM) 13.0
NSC (Non-Structural Carbohydrates) WSC (%DM) 17.9
DCAD (meq/100gdm)
Summative Index % (Mass Balance) 94.9

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



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