

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 12346 access code: qsnn



Corn Silage Report - UW Recommended + Starch Digestibility (DSA)

Report Number: 12346 Lab Number: 1 Sample Description: 1
 Material: Corn Silage

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	32.00	WC
Moisture		% as fed	68.00	C
Protein Fractions				
Crude Protein	CP	% DM	8.00	NIR
Soluble Crude Protein	SCP	% CP		NR
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.50	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	1.30	NIR
Heat Damaged Protein-Estimated		% DM	0.50	C
Adjusted Crude Protein		% DM	8.00	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	27.00	NIR
Neutral Detergent Fiber, with Na ₂ SO ₃	aNDF	% DM	40.00	WC
Lignin, Acid Detergent	ADL	% DM	2.50	NIR
Lignin, Acid Detergent	ADL	% NDF	6.25	C
Neutral Detergent Fiber Digestibility, 48 h, 1mm	NDFD	% NDF	60.00	WC
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	45.90	C
Starch		% DM	34.00	WC
Starch Digestibility, DSA		% Starch	32.00	WC
Non Starch NFC, Sugars + VFAs		% DM	11.90	C
Fat		% DM	3.20	T
pH				NA
Energy Calculations: Schwab/Shaver				
Total Digestible Nutrients, 1X	TDN	% DM	51.00	C
Net Energy, Lactation, 3X	NEl	Mcals/lb	0.44	C
Net Energy, Maintenance	NEm	Mcals/lb	0.44	C
Net Energy, Gain	NEg	Mcals/lb	0.20	C
Metabolizable Energy	ME	Mcals/lb	0.83	C
Milk/Ton		lbs	1,646	C

Macro Minerals

Phosphorus	P	3.00	% DM	NIR
Calcium	Ca	3.00	% DM	NIR
Potassium	K	3.00	% DM	NIR
Magnesium	Mg	3.00	% DM	NIR
Sodium	Na		% DM	NR
Chloride	Cl		% DM	NR
Sulfur	S		% DM	NR

Micro Minerals

Iron	Fe		ppm	NR
Manganese	Mn		ppm	NR
Zinc	Zn		ppm	NR
Copper	Cu		ppm	NR
Ash		4.20	% DM	WC

¹ WC = wet chemistry NIR = near infrared spectroscopy NR = not requested NA = not available C = calculated T = tabular value

Methods used for these analyses can be found at <http://uwlab.soils.wisc.edu/procedures.htm>