

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 3143 access code: dqac



Legume/Grass Hay Report - Standard

Report Number: 3143 Lab Number: 3037 Sample Description: Scissor Clip Alf5
 Material: Legume or Grass Hay
 Harvest date: 5/24/2009 Cutting: 1st

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	91.00	WC
Moisture		% as fed	9.00	C
Protein Fractions				
Crude Protein	CP	% DM	23.94	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	32.66	NIR
Rumen-Degraded Protein	RDP	% CP	67.34	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.56	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	4.23	C
Heat Damaged Protein-Estimated		% DM	0.56	C
Adjusted Crude Protein		% DM	23.94	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	24.22	NIR
Neutral Detergent Fiber	aNDF	% DM	35.64	NIR
Lignin, Acid Detergent	ADL	% DM	4.61	NIR
Lignin, Acid Detergent	ADL	% NDF	12.93	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% NDF	55.30	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	34.91	C
Fat		% DM	2.68	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	70.51	C
Net Energy, Lactation, 3X	NeI	Mcals/lb	0.73	C
Net Energy, Maintenance	NEm	Mcals/lb	0.80	C
Net Energy, Gain	NEg	Mcals/lb	0.52	C
Metabolizable Energy	ME	Mcals/lb	1.22	C
Relative Forage Quality	RFQ		209.37	C
Milk/Ton		lbs	3,450	C

Macro Minerals				Micro Minerals					
Phosphorus	P	0.36	% DM	NIR	Iron	Fe	ppm	NR	
Calcium	Ca	1.26	% DM	NIR	Manganese	Mn	ppm	NR	
Potassium	K	2.14	% DM	NIR	Zinc	Zn	ppm	NR	
Magnesium	Mg	0.34	% DM	NIR	Copper	Cu	ppm	NR	
Sodium	Na		% DM	NR	Ash		7.06	% DM	NIR
Chloride	Cl		% DM	NR					
Sulfur	S		% DM	NR					

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>