

UW Soil & Forage Analysis Laboratory

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Results also available on-line at <http://uwlab.soils.wisc.edu/reports>
 lab number: 3144 access code: 33wr



Legume/Grass Hay Report - Standard

Report Number: 3144 Lab Number: 3038 Sample Description: Scissor clip - MF5
 Material: Legume or Grass Hay
 Harvest date: 5/24/2009 Cutting: 1st

Item	Abbreviation	Unit	Result	Method ¹
Dry Matter	DM	% as fed	90.68	WC
Moisture		% as fed	9.32	C
Protein Fractions				
Crude Protein	CP	% DM	18.30	NIR
Soluble Crude Protein	SCP	% CP		NA
Rumen-Undegraded Protein	RUP	% CP	45.72	NIR
Rumen-Degraded Protein	RDP	% CP	54.28	C
Acid Detergent Fiber Crude Protein	ADF-CP	% DM	0.33	NIR
Neutral Detergent Fiber Crude Protein	NDF-CP	% DM	4.33	C
Heat Damaged Protein-Estimated		% DM	0.33	C
Adjusted Crude Protein		% DM	18.30	C
Fiber Fractions				
Acid Detergent Fiber	ADF	% DM	29.36	NIR
Neutral Detergent Fiber	aNDF	% DM	49.40	NIR
Lignin, Acid Detergent	ADL	% DM	3.26	NIR
Lignin, Acid Detergent	ADL	% NDF	6.60	C
Neutral Detergent Fiber Digestibility, 48 h	NDFD	% NDF	74.90	NIR
Carbohydrates and Fats				
Non Fiber Carbohydrate	NFC	% DM	24.20	C
Fat		% DM	3.27	NIR
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	TDN	% DM	72.45	C
Net Energy, Lactation, 3X	NeI	Mcals/lb	0.75	C
Net Energy, Maintenance	NEm	Mcals/lb	0.84	C
Net Energy, Gain	NEg	Mcals/lb	0.55	C
Metabolizable Energy	ME	Mcals/lb	1.26	C
Relative Forage Quality	RFQ		191.87	C
Milk/Ton		lbs	3,747	C

Macro Minerals					Micro Minerals				
Phosphorus	P	0.41	% DM	NIR	Iron	Fe		ppm	NR
Calcium	Ca	0.39	% DM	NIR	Manganese	Mn		ppm	NR
Potassium	K	3.14	% DM	NIR	Zinc	Zn		ppm	NR
Magnesium	Mg	0.20	% DM	NIR	Copper	Cu		ppm	NR
Sodium	Na		% DM	NR	Ash		9.16	% 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>