

Forage Analysis Report

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UTEXTENSION
INSTITUTE OF AGRICULTURE
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Sample Name: BarofamaN
Lab Number: 118338
Type (Identified by Client): Hay
Forage Species (Identified by Client): Mixed Grasses



Payment Information:
Check 168 - \$182.00

Report Date: 8/13/2026

Near-Infrared Spectroscopy Analysis (NIRS)

Water Content

		<i>as received</i>
DM	Dry Matter (Final)	92.45 %
Moisture	Moisture	7.55 %

Protein

		<i>100% DM basis</i>
CP	Crude Protein	13.04 %
ADICP	Acid Detergent Insoluble Crude Protein	1.37 %
NDICP	Neutral Detergent Insoluble Crude Protein	3.39 %
InsolCP	Insoluble Crude Protein	8.14 %
Lysine	Lysine	0.45 %

Fiber

ADF	Acid Detergent Fiber	37.43 %
NDF	Neutral Detergent Fiber	66.14 %
Lignin	Lignin	6.06 %
aNDFom	amylase-treated NDF corrected for organic matter	64.00 %

Carbohydrates

ESC	Sugar	3.34 %
Fructan	Fructan	1.91 %
Starch	Starch	0.65 %
WSC	Water-Soluble Carbohydrates	4.34 %
NSC	Non-Structural Carbohydrates	4.99 %
NFC	Non-Fiber Carbohydrates	13.50 %

Digestibility

IVTDMD48h	<i>in-vitro</i> True DM Digestibility at 48h	70.38 %
IVTDMD30h	<i>in-vitro</i> True DM Digestibility at 30h	56.33 %
NDFD48h	Neutral Digestible Fiber Digestibility at 48h	50.71 %
dNDF30h	Digestible Neutral Detergent Fiber at 30h	22.87 %
NDFD30h	Neutral Detergent Fiber Digestibility at 30h	34.59 %
dNDF48h	Digestible Neutral Detergent Fiber at 48h	33.54 %
uNDF240h	Undigestible Neutral Detergent Fiber at 240h	19.46 %
uNDF240om	Undigestible Neutral Detergent Fiber at 240om	18.60 %

Fat Content

Fat	Fat	2.42 %
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Minerals

		<i>100% DM basis</i>
Ash	Ash	4.90 %
P	Phosphorus	0.26 %

K	Potassium	1.67 %
Ca	Calcium	0.45 %
Mg	Magnesium	0.20 %
Energy Calculations		
TDN	Total Digestible Nutrients	59.40 %
DE	Digestible Energy	1.70 MCal/kg
ME	Metabolizable Energy	0.98 MCal/lb
NE _m	Net-Energy for Maintenance	0.59 MCal/lb
NE _g	Net-Energy for Gain	0.33 MCal/lb
NE _l	Net-Energy for Lactation	0.60 MCal/lb
Nutritive Value Parameters		<i>Scale</i>
RFQ	Relative Forage Quality	88
RFV	Relative Feed Value (Alfalfa only)	84

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- All nutritive analyses at 100% Dry Matter (DM) basis unless otherwise noted.
 - Not all constituents are available for each forage type submitted to the Soil, Plant and Pest Center.
 - Forage analysis calibrations provided by the NIRS Forage and Feed Consortium. Certification with the National Forage Testing Association.
 - For conversions: ppm = mg/kg
 - Relative Forage Quality (RFQ) is reported for all grass, mixed, legume hays and haylages.
 - Relative Feed Value (RFV) is reported for Alfalfa only.
 - No nutritive value parameter scale is available for corn silage.

[Forage Analysis Definitions Publication W1341](#)

For more information about your forage analysis, please visit with your local UT/TSU Extension Agent.

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