



MINNESOTA VALLEY TESTING LABORATORIES, INC.

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MEMBER
ACIL

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CERTIFICATE of ANALYSIS

Page: 1 of 2

TOM LANE
THARALDSON ETHANOL
3549 153RD AVENUE SE
CASSELTON ND 58012

Report Date: 8 Apr 2009
Work Order #: 17-9721
Account #: 003759

Date Sampled: 23 Mar 2009
Date Received: 26 Mar 2009

Plant: THAROLDSON ETHANOL CASSELTON ND

	As Received Result	Dry Basis Result	Units of Measure	Date Analyzed
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09-N2712 WDG W-323

NUTRIENTS

Moisture	67.2	N/A	%	1 Apr 09
Protein N x 6.25	9.86	30.1	%	1 Apr 09
Fat, Pet Ether	4.89	14.9	%	1 Apr 09
Fiber, Crude	1.78	5.43	%	2 Apr 09
Fiber, AD	4.41	13.4	%	8 Apr 09
Ash	1.69	5.15	%	31 Mar 09
Starch	1.39	4.24	%	1 Apr 09
Sulfur	0.24	0.73	%	2 Apr 09
Phosphorus	0.35	1.07	%	30 Mar 09
Sodium	228.6	697.0	mg/Kg	30 Mar 09
Calcium	94.0	286.6	mg/Kg	30 Mar 09
Potassium	4723	14400	mg/Kg	30 Mar 09
Magnesium	1515	4619	mg/Kg	30 Mar 09
Zinc	24.27	73.99	mg/Kg	30 Mar 09
Manganese	7.177	21.88	mg/Kg	30 Mar 09
Iron	35.91	109.5	mg/Kg	30 Mar 09
Copper	2.019	6.155	mg/Kg	30 Mar 09

CALCULATED VALUES

Nitrogen-free Extract	14.6	44.5	%	1 Apr 09
Total Digestible Nutrient	N/A	89.3	%	
NEL	N/A	94.1	Mcal/cwt	
NEG	N/A	69.6	Mcal/cwt	
NEM	N/A	101	Mcal/cwt	
Swine DF	N/A	3940	Kcal/Ka DM	