

**GLYCERIN TRADERS LLC
DENNIS ZEEDYK
2010 MICHIGAN AVE
LA PORTE IN 46350**

REPORT OF ANALYSIS

For: (28747) GLYCERIN TRADERS LLC
LIQUID ANALYSIS
LIQUID

Analysis	Level Found		Units	Reporting		Analyst-Date	Verified-Date
	As Received	Dry Weight		Limit	Method		
Sample ID: JULY 22 2016		Lab Number: 12681341					
Moisture (vacuum oven - 70°C)	11.94	//////	%	0.01	AOAC 969.35 *	ddd1-2016/08/10	cmw4-2016/08/11
Dry matter	88.06	//////	%	0.010	Calculation *	Auto-2016/08/12	Auto-2016/08/12
Protein (crude)	0.40	0.45	%	0.05	AOAC 990.03 *	kfl0-2016/08/10	cmw4-2016/08/11
Fat (acid hydrolysis)	0.35	0.40	%	0.10	AOAC 954.02 (mod) *	kap7-2016/08/11	cmw4-2016/08/11
Fiber (acid detergent)	n.d.	n.d.	%	0.5	ANKOM Tech. Method *	vrn7-2016/08/10	cmw4-2016/08/11
Ash	4.21	4.78	%	0.10	AOAC 942.05 *	kap7-2016/08/11	cmw4-2016/08/11
Total digestible nutrients	75.8	86.1	%	0.1	Calculation *	Auto-2016/08/11	Auto-2016/08/12
Net energy (lactation)	0.79	0.90	Mcal/lbs	0.01	Calculation *	Auto-2016/08/11	Auto-2016/08/12
Net energy (maint.)	0.83	0.94	Mcal/lbs	0.01	Calculation *	Auto-2016/08/11	Auto-2016/08/12
Net energy (gain)	0.55	0.62	Mcal/lbs	0.01	Calculation *	Auto-2016/08/11	Auto-2016/08/12
Digestible energy	1.51	1.72	Mcal/lbs	0.01	Calculation *	Auto-2016/08/11	Auto-2016/08/12
Metabolizable energy	1.45	1.65	Mcal/lbs	0.01	Calculation *	Auto-2016/08/11	Auto-2016/08/12
Lead (total)	n.d.	n.d.	mg/kg	5.0	EPA 6010 *	ras7-2016/08/10	kkh9-2016/08/12
Cadmium (total)	n.d.	n.d.	mg/kg	0.50	EPA 6010 *	ras7-2016/08/10	kkh9-2016/08/12
Arsenic (total)	n.d.	n.d.	mg/kg	10.0	EPA 6010 *	ras7-2016/08/10	kkh9-2016/08/12
Antimony (total)	n.d.	n.d.	mg/kg	5	EPA 6010 *	ras7-2016/08/10	kkh9-2016/08/12
Methanol	0.05		mass %	0.01	EN 14110 (mod)	nto7-2016/08/12	slg7-2016/08/12

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

REPORT NUMBER

16-225-9602

REPORT DATE
Aug 12, 2016

SEND TO
28747

RECEIVED DATE
Aug 09, 2016



13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770

www.midwestlabs.com

PAGE 2/4

ISSUE DATE
Aug 12, 2016

**GLYCERIN TRADERS LLC
DENNIS ZEEDYK
2010 MICHIGAN AVE
LA PORTE IN 46350**

REPORT OF ANALYSIS

For: (28747) GLYCERIN TRADERS LLC
LIQUID ANALYSIS
LIQUID

Analysis	Level Found		Units	Reporting		Analyst-Date	Verified-Date
	As Received	Dry Weight		Limit	Method		

n.d. = not detected , ppm = parts per million, ppm = mg/kg

For questions please contact:

Sue Ann Seitz
Account Manager
sueann.seitz@midwestlabs.com (402)829-9892

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

**GLYCERIN TRADERS LLC
DENNIS ZEEDYK
2010 MICHIGAN AVE
LA PORTE IN 46350**

REPORT OF ANALYSIS

For: (28747) GLYCERIN TRADERS LLC
LIQUID ANALYSIS
LIQUID

Detailed Method Description(s)

Vacuum Moisture

Analysis follows FO 02 or FD 018, both of which are based on AOAC 969.35. Samples are placed in pre-weighed tins and then placed in an oven that can attain a vacuum. The oven is set at 70°C under vacuum for 4 hours. Dried samples are re-weighed and the loss in weight is reported as moisture.

Calculation

Analytical results are entered into applicable formulas to provide a calculated result which is reported.

AOAC 990.03

Analysis follows MWL FD 070 which is based on AOAC 990.03. The sample is placed in a combustion instrument and the amount of nitrogen is obtained. The nitrogen value is multiplied by a factor of 6.25 and that value reported as crude protein.

Acid Hydrolysis Fat

Analysis follows FD 027 which is based on AOAC 954.02. A sample is treated with ethanol and hydrochloric acid to help release fat in the sample. Separate treatments of ethyl ether and petroleum ether is used to extract the fat and the ethers collected in a pre-weighed beaker. The ether is evaporated and dried at 70 degrees C to remove remaining ether and moisture and the material remaining in the beaker is reported as "fat".

Acid Detergent Fiber

Analysis follows MWL FD 021 which is based on Ankom Technology method. The sample is sealed in a small bag and the bag immersed in a solution that dissolves certain materials. The bag is washed and dried and re-weighed. The material remaining in the bag is reported as acid detergent fiber

Ash

Analysis follows MWL FD 019 which is based on AOAC 942.05. The sample is weighed and placed in a muffle furnace at 600°C. After a period of time, the sample is removed and the remaining material weighed and reported as ash. Moisture and organic material is driven off.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

REPORT NUMBER

16-225-9602

REPORT DATE
Aug 12, 2016
RECEIVED DATE
Aug 09, 2016

SEND TO
28747



PAGE 4/4

ISSUE DATE
Aug 12, 2016

**GLYCERIN TRADERS LLC
DENNIS ZEEDYK
2010 MICHIGAN AVE
LA PORTE IN 46350**

REPORT OF ANALYSIS

For: (28747) GLYCERIN TRADERS LLC
LIQUID ANALYSIS
LIQUID

ME 042

Analysis follows MWL ME 042 which is based on EPA 6010b, Inductively Coupled Plasma (ICP).

A light emission technique where prepared samples are injected into a high energy plasma that forces the elements in the injected sample to emit light energies which are proportional to the level of minerals and metals present. The light is then detected and correlated to the levels of minerals and metals in the original sample.

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.