

Report Date 2/9/2022

6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

Client: DEF Products, LLC
Contact Sharon Stegmuller
Address 422 East Barioni Blvd
Imperial, CA 02251
Email defproducts@gmail.com
Phone 760 355 7997



 Enalytic ID
 E2202007-001

 Batch Number
 302012022P

 Train Number
 UTLX647904

 Sample ID
 DEF 32.5%

 Date Sampled
 2/1/2022

 Date Received
 2/7/2022

 ISO 17025
 Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302012022P Train # UTLX647904

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.2	SPT	2/9/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3825	ALB	2/8/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.09	MDC	2/7/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.14	ALB	2/9/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	2/8/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	2/8/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.035	DSD	2/9/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/9/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.084	DSD	2/9/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/8/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	ALB	2/8/2022		

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown.

Note 3: ISO 17025 accreditation not applied for.

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Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/9/2022



Report Date 2/9/2022

6034 Corporate Dr. East Syracuse NY 13057 Enalytic.com Ph:315-437-0255 Web Site:

Client: DEF Products, LLC Contact Sharon Stegmuller Address 422 East Barioni Blvd Imperial, CA 02251 Email defproducts@gmail.com Phone 760 355 7997



Enalytic ID E2202007-002 Batch Number 302022022P Train Number UTLX647681 Sample ID DEF 32.5% Date Sampled 2/2/2022 Date Received 2/7/2022 ISO 17025 Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302022022P Train # UTLX647681

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.1	SPT	2/9/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3823	ALB	2/8/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.09	MDC	2/7/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.16	ALB	2/9/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	2/8/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	2/8/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/9/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/9/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/9/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/8/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	ALB	2/8/2022		

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Enalytic DUNS Reg. Number: 02-636-0096

2/9/2022 Date:

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Report Date 2/14/2022

6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

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Address 422 East Barioni Blvd
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Email defproducts@gmail.com
Phone 760 355 7997

ANSI National Accreditation Board
A C C R E D I T E D

ISO/IEC 17025
TESTING LABORATORY

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302082022L Train # UTLX680516

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.3	SPT	2/11/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3825	ALB	2/11/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.05	MDC	2/11/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.12	ALB	2/11/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	2/11/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	2/11/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/14/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.24	DSD	2/14/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/14/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/14/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/14/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/14/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/14/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/14/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/14/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/14/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/14/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/11/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0903	ALB	2/11/2022		

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Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/14/2022



Report Date 2/22/2022

6034 Corporate Dr. East Syracuse NY 13057 Enalytic.com Ph:315-437-0255 Web Site:

Client: DEF Products, LLC Contact Sharon Stegmuller Address 422 East Barioni Blvd Imperial, CA 02251 Email defproducts@gmail.com Phone 760 355 7997



Enalytic ID E2202030-001 Batch Number 302152022M Train Number TILX265535 Sample ID DEF 32.5% Date Sampled 2/15/2022 Date Received 2/17/2022 ISO 17025 Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302152022M Train # TILX265535

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.2	SPT	2/21/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3824	ALB	2/17/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.01	MDC	2/21/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.12	MDC	2/21/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	2/18/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	SPT	2/17/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.065	DSD	2/18/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/18/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/18/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/18/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/18/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/17/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	ALB	2/17/2022		

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2/22/2022 Date:

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Phone 760 355 7997

ANSI National Accreditation Board
A C C R E D I T E D

ISO/IEC 17025
TESTING LABORATORY

Enalytic ID	E2202030-002
Batch Number	302162022M
Train Number	KLRX243013
Sample ID	DEF 32.5%
Date Sampled	2/16/2022
Date Received	2/17/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302162022M Train # KLRX243013

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.1	SPT	2/21/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3823	ALB	2/17/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.01	MDC	2/21/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.12	MDC	2/21/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	2/18/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	SPT	2/17/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.074	DSD	2/18/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/18/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/18/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/18/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/18/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/18/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/17/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0888	ALB	2/17/2022		

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Date: 2/22/2022



6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

Client: DEF Products, LLC Contact Sharon Stegmuller Address 422 East Barioni Blvd Imperial, CA 02251 Email defproducts@gmail.com

Phone 760 355 7997 Report Date 2/23/2022



Enalytic ID	E2202033-001
Batch Number	302172022M
Train Number	TILX265564
Sample ID	DEF 32.5%
Date Sampled	2/17/2022
Date Received	2/21/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302172022M Train # TILX265564

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.5	SPT	2/23/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3828	ALB	2/22/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	ALB	2/22/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.11	MDC	2/22/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	2/23/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	2/22/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/23/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.11	DSD	2/23/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.060	DSD	2/23/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/23/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/23/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/23/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/23/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/23/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/23/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/23/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/23/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/22/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0898	ALB	2/22/2022		

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2/23/2022 Date:

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Client: DEF Products, LLC
Contact Sharon Stegmuller
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Phone 760 355 7997 Report Date 2/28/2022



Enalytic ID	E2202040-001
Batch Number	302232022M
Train Number	TILX265229
Sample ID	DEF 32.5%
Date Sampled	2/23/2022
Date Received	2/24/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 302232022M Train # TILX265229

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.4	ALB	2/28/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3827	ALB	2/24/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	ALB	2/24/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.12	MDC	2/25/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	2/25/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	2/24/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/28/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/28/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.074	DSD	2/28/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/28/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/28/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/28/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/28/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	2/28/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/28/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	2/28/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	2/28/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	2/24/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0910	ALB	2/24/2022		

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown.

Note 3: ISO 17025 accreditation not applied for.

All procedures were conducted in accordance with Enalytic's Quality Control manual in its most current form and/or related procedures. The information contained in the analytical report represents only the materials tested and may not be reproduced except in full and without the written approval of the Technical Director of Enalytic Labs. Enalytic maintains a quality system in compliance with ISO17025:2017 with accreditations through ANAB certificate #AT-2956. All testing will be conducted in good faith by trained personnel equipped with the proper equipment and methodologies. Our liability will be limited to the cost of the services, including third-party charges. All test samples will be retained for a minimum of 3 months and/or extension by request. Fraudulent, false or statements of fiction are punishable by Federal Law. All samples received and reported above have been received in proper condition or as noted on the report.

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/28/2022