



Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/11/2024

Enalytic ID	E2412017-001
TRAIN #	GBRX717123
TRC #	0312052024T
T #	17&4
Sample ID	DEF 32.5%
Date Sampled	12/5/2024
Date Received	12/9/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TRAIN # GBRX717123 T # 17&4 TRC # 0312052024T

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results <sup>4</sup>	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.0	SPT	12/11/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3821	NAC	12/9/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.02	MDC	12/9/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	NAC	12/9/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	12/9/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	2.6	MFB	12/9/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/10/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/10/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/10/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/10/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/10/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/10/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/10/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	12/10/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/11/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/11/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/10/2024	Pass
<b>Miscellaneous Secondary Unregulated Quality Standards</b>							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0889	MFB	12/10/2024	---

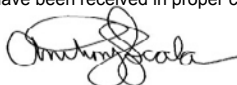
Note 1: All ISO standards are up to date with the latest revisions.

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. FTIR Scan Report to Follow.

Note 4: The Report has been Amended for the Metals Rerun.

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 Perry Johnson certificate #L24-103. 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

Date: 12/11/2024



Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/17/2024

Enalytic ID	E2412040-001
TRAIN #	GBRX716261
TRC #	0312112024M
T #	1&2
Sample ID	DEF 32.4%
Date Sampled	12/11/2024
Date Received	12/13/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

**Client ID: 32.4% DEF TRAIN # GBRX716261 T # 1&2 TRC # 0312112024M**

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	<b>32.1</b>	SPT	12/17/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	<b>1.3823</b>	NAC	12/16/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	<b>0.06</b>	MFB	12/16/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	<b>0.17</b>	NAC	12/17/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<b>&lt;1.0</b>	MFB	12/13/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<b>&lt;2.5</b>	MFB	12/13/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/16/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/16/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/16/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/16/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/16/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/16/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/16/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.46</b>	BDK	12/16/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/16/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/16/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/16/2024	Pass

### Miscellaneous Secondary Unregulated Quality Standards

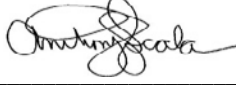
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	<b>1.0869</b>	MFB	12/16/2024	---

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.

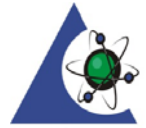
Note 3: ISO 17025 accreditation not applied for. FTIR Scan Report to Follow.

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 12/17/2024



Client:	DEF Products, LLC
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Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/20/2024

Enalytic ID	E2412053-001
TRAIN #	GATX220523
TRC #	0312162024L
T #	5&3
Sample ID	DEF 32.8%
Date Sampled	12/16/2024
Date Received	12/18/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

**Client ID: 32.8% DEF TRAIN # GATX220523 T # 5&3 TRC # 0312162024L**

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	<b>32.4</b>	SPT	12/20/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	<b>1.3829</b>	SPT	12/20/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	<b>0.08</b>	MDC	12/18/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	<b>0.18</b>	NAC	12/18/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<b>&lt;1.0</b>	MFB	12/20/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<b>&lt;2.5</b>	MFB	12/19/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/19/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/19/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/19/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/19/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/19/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/19/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/19/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.46</b>	BDK	12/19/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/19/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/19/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/19/2024	Pass

### Miscellaneous Secondary Unregulated Quality Standards

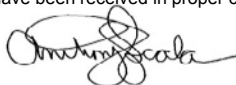
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	<b>1.0884</b>	MFB	12/19/2024	---

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

Date: 12/20/2024



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Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/26/2024

Analytic ID	E2412063-001
TRAIN #	GBRX716264
TRC #	312192024M
T #	8&4
Sample ID	DEF 32.6%
Date Sampled	12/19/2024
Date Received	12/23/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.6% DEF TRAIN # GBRX716264 T # 8&4 TRC # 312192024M

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.0	SPT	12/26/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3822	MDC	12/26/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.09	NAC	12/24/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	NAC	12/24/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	12/24/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	3.4	MFB	12/23/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/24/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/24/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/24/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/24/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/24/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/24/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/24/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	12/24/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/24/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	12/24/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	12/24/2024	Pass

### Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0884	MFB	12/26/2024	---

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

Date: 12/26/2024

Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/31/2024

Enalytic ID	E2412071-001
TRAIN #	GBRX716306
TRC #	312232024M
T #	5&1
Sample ID	DEF 32.5%
Date Sampled	12/23/2024
Date Received	12/26/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TRAIN # GBRX716306 T # 5&1 TRC # 312232024M

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	<b>32.2</b>	SPT	12/30/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	<b>1.3825</b>	NAC	12/30/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	<b>0.06</b>	MFB	12/26/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	<b>0.17</b>	NAC	12/30/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<b>&lt;1.0</b>	MFB	12/27/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<b>&lt;2.5</b>	MFB	12/27/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/31/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/31/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/31/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/31/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/31/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/31/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/31/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.46</b>	BDK	12/31/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/31/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.15</b>	BDK	12/31/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.06</b>	BDK	12/31/2024	Pass

### Miscellaneous Secondary Unregulated Quality Standards

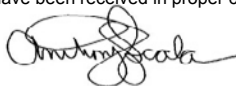
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	<b>1.0879</b>	MFB	12/30/2024	---

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

Date: 12/31/2024



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Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	1/6/2025

Enalytic ID	E2501002-001
TRAIN #	GBRX716018
TRC #	312302024T
T #	3&2
Sample ID	DEF 32.5%
Date Sampled	12/30/2024
Date Received	1/2/2025
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TRAIN # GBRX716018 T # 3&2 TRC # 312302024T

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.2	SPT	1/6/2025	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3824	NAC	1/6/2025	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.02	MFB	1/6/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	NAC	1/6/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	1/6/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	1/6/2025	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	1/6/2025	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.24	BDK	1/6/2025	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	1/6/2025	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.089	BDK	1/6/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	1/6/2025	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	1/6/2025	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.089	BDK	1/6/2025	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	1/6/2025	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	1/6/2025	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	1/6/2025	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	1/6/2025	Pass

### Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0888	MFB	1/6/2025	---

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 Perry Johnson certificate #L24-103. 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 in proper condition or as noted on the report.

Certification Approval 

Laboratory Director: Anthony J Scala

Date: 1/6/2025