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Lot number traceable inhibitory residue tests for cleaners from Alconox Inc.

You will need this document with the inhibitory residue test data for all the recent master lot numbers plus the certificate of analysis for your specific lot of detergent showing that it is a sub lot of one of these master lot numbers.

To get a lot number specific inhibitory residue test to comply with accreditation guidelines requiring lot specific or annual testing, get a certificate of analysis (COA) for the detergent you have. These COA's can be found by creating or using your login at:

<https://alconox.com/certificate-of-analysis-coa/>

Lot numbers that you will need to get your COA are found at the top of the bar code panel or top flap of the 4 lb boxes (milk cartons), above the label on bottle, and on the side of the corrugated box or drum for larger sizes and cases.

On the COA you will find your lot number is a sub lot of some specific master lot number. Attached are the master lot number inhibitory residue tests. With the COA and the inhibitory residue test, you can trace your lot of detergent to a specific recent master lot number and the inhibitory residue test data attached.

Master lot numbers change in the unusual event of a significant change in raw materials or manufacturing. Master lot numbers change such that each lot can be traced to a Master lot that was tested within one year.

Inhibitory residue tests are performed for each year's worth of sub lot numbers.

Report of Inhibitory Residue Test for LIQUINOX®

Study dates: January 13th – February 10th, 2025

Review Date: February 25th, 2025

Sample Identification: M24-6797.28

Master Lot No: 01-16-24-01 (master lot number covers all Liquinox® sub lots manufactured in the year 2025)

Master Lot changes with any significant raw material or manufacturing change. See Certificate of Analysis for Master Lot reference for any specific sub lot.

TEST METHOD:

Procedure defined and adhered to as described in section 9, 20th Ed Standard Methods for the Examination of Water and Wastewater. Test performed by an independent laboratory.

Detergent: 1% LIQUINOX™ aqueous solution.

- Group A: Washed with LIQUINOX®, then rinsed 1X DI water
- Group B: Washed with LIQUINOX®, then rinsed 12X DI water
- Group C: Washed with LIQUINOX®, no rinsing
- Group D: Sterile Petri dishes

The glassware was sterilized and pour plates were prepared using a known population of *E. aerogenes*

RESULTS:

Plate #	CFU/mL	CFU/mL	CFU/mL	CFU/mL
	Group A	Group B	Group C	Group D
Average	104	101	102	102
<15% Difference	YES	YES	YES	YES

CONCLUSION: As shown in the table, the average CFU/mL differs less than 15% between Groups A, B, C and D. The results indicate that LIQUINOX® detergent does not exhibit any toxic or inhibitory effects.

Report of Inhibitory Residue Test for LIQUINOX®

Study dates: March 12th - March 18th, 2024

Analysis Completion Date: April 3rd, 2024

Sample Identification: M24-0126.11

Master Lot No: L2E3 (master lot number covers all Liquinox® sub lots manufactured in the year 2024)

Master Lot changes with any significant raw material or manufacturing change. See Certificate of Analysis for Master Lot reference for any specific sub lot.

TEST METHOD:

Procedure defined and adhered to as described in section 9, 20th Ed Standard Methods for the Examination of Water and Wastewater. Test performed by an independent laboratory.

Detergent: 1% LIQUINOX™ aqueous solution.

- Group A: Washed with LIQUINOX™, then rinsed 1X DI water
- Group B: Washed with LIQUINOX™, then rinsed 12X DI water
- Group C: Washed with LIQUINOX™, no rinsing
- Group D: Sterile Petri dishes

The glassware was sterilized and pour plates were prepared using a known population of *E. aerogenes*

RESULTS:

Plate #	CFU/mL	CFU/mL	CFU/mL	CFU/mL
	Group A	Group B	Group C	Group D
Average	103	104	98	107
<15% Difference	YES	YES	YES	YES

CONCLUSION: As shown in the table, the average CFU/mL differs less than 15% between Groups A, B, C and D. The results indicate that LIQUINOX® detergent does not exhibit any toxic or inhibitory effects.

Report of Inhibitory Residue Test for LIQUINOX®

Study dates: March 22- March 29, 2023

Analysis Completion Date: March 30, 2023

Sample Identification: M23-1123.11

Master Lot No: L1A2 (master lot number covers all Liquinox® sub lots manufactured in the year 2023)

Master Lot changes with any significant raw material or manufacturing change. See Certificate of Analysis for Master Lot reference for any specific sub lot.

TEST METHOD:

Procedure defined and adhered to as described in section 9, 20th Ed Standard Methods for the Examination of Water and Wastewater. Test performed by an independent laboratory.

Detergent: 1% LIQUINOX™ aqueous solution.

- Group A: Washed with LIQUINOX™, then rinsed 1X DI water
- Group B: Washed with LIQUINOX™, then rinsed 12X DI water
- Group C: Washed with LIQUINOX™, no rinsing
- Group D: Sterile Petri dishes

The glassware was sterilized and pour plates were prepared using a known population of *E. aerogenes*

RESULTS:

Plate #	CFU/mL	CFU/mL	CFU/mL	CFU/mL
	Group A	Group B	Group C	Group D
Average	81	82	78	84
<15% Difference	YES	YES	YES	YES

CONCLUSION: As shown in the table, the average CFU/mL differs less than 15% between Groups A, B, C and D. The results indicate that LIQUINOX® detergent does not exhibit any toxic or inhibitory effects.

Report of Inhibitory Residue Test for LIQUINOX®

Study dates: March 17- April 5, 2022

Analysis Completion Date: April 11, 2022

Sample Identification: M22-1123.11

Master Lot No: L1B2 (master for lots of the form “L, 1-9, A-M, 0-9, and optional A-Z”)

Master Lot changes with any significant raw material or manufacturing change. See Certificate of Analysis for Master Lot reference for any specific sub lot.

TEST METHOD:

Procedure defined and adhered to as described in section 9, 20th Ed Standard Methods for the Examination of Water and Waste Water. Test performed by an independent laboratory.

Detergent: 1% LIQUINOX™ aqueous solution.

- Group A: Washed with LIQUINOX™, then rinsed 1X DI water
- Group B: Washed with LIQUINOX™, then rinsed 12X DI water
- Group C: Washed with LIQUINOX™, no rinsing
- Group D: Sterile Petri dishes

The glassware was sterilized and pour plates were prepared using a known population of *E. aerogenes*

RESULTS:

Plate #	CFU/mL	CFU/mL	CFU/mL	CFU/mL
	Group A	Group B	Group C	Group D
Average	87	88	90	96
<15% Difference	YES	YES	YES	YES

CONCLUSION: As shown in the table, the average CFU/mL differs less than 15% between Groups A, B, C and D. The results indicate that LIQUINOX® detergent does not exhibit any toxic or inhibitory effects.

Report of Inhibitory Residue Test for LIQUINOX®

Study dates: Jan 18- Jan 29, 2021

Analysis Completion Date: Feb 4, 2021

Sample Identification: M20-7157.11

Master Lot No: L3D0 (master for lots of the form “L, 1-9, A-M, 0-9, and optional A-Z”)

Master Lot changes with any significant raw material or manufacturing change. See Certificate of Analysis for Master Lot reference for any specific sub lot.

TEST METHOD:

Procedure defined and adhered to as described in section 9, 20th Ed Standard Methods for the Examination of Water and Waste Water. Test performed by an independent laboratory.

Detergent: 1% LIQUINOX™ aqueous solution.

- Group A: Washed with LIQUINOX™, then rinsed 1X DI water
- Group B: Washed with LIQUINOX™, then rinsed 12X DI water
- Group C: Washed with LIQUINOX™, no rinsing
- Group D: Sterile Petri dishes

The glassware was sterilized and pour plates were prepared using a known population of *E. aerogenes*

RESULTS:

Plate #	CFU/mL	CFU/mL	CFU/mL	CFU/mL
	Group A	Group B	Group C	Group D
Average	117	116	119	115
<15% Difference	YES	YES	YES	YES

CONCLUSION: As shown in the table, the average CFU/mL differs less than 15% between Groups A, B, C and D. The results indicate that LIQUINOX® detergent does not exhibit any toxic or inhibitory effects.