



ENVIROTEK LABORATORIES, INC.

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EPA ID # NJ01298 NJ DEP ID # 08012

ADYA CLARITY MINERAL SOLUTION ARSENIC REDUCTION TEST REPORT

Report # 14-130 (Adya Clarity Mineral Solution)

Customer Name: Adya, Inc.

Report Date: May 27, 2014

EXECUTIVE SUMMARY

A challenge water prepared with Arsenic III, at a concentration of 50 µg/L. Adya Clarity Mineral Solution was added to the solution at a concentration of 3 mL of Clarity per liter of challenge water. The solution was filtered through the Adya Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Clarity solution. The concentration of Arsenic decreased to non-detectable level after 48 hours.

INTRODUCTION

A challenge water prepared with Arsenic III, at a concentration of 50 µg/L. Adya Clarity Mineral Solution was added to the solution at a concentration of 3 mL of Clarity per liter of challenge water. The solution was filtered through the Adya Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Clarity solution. The concentration of Arsenic decreased to non-detectable level after 48 hours.

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Arsenic III Standard Solution.
Adya Clarity Mineral Solution.
Adya Ceramic Filter System.

PROCEDURE

A challenge water solution was prepared with DI water and Arsenic III standard at a concentration of about 50µg/L; then added Adya Clarity Mineral Solution to the challenge water at a concentration of 3 mL of Clarity per liter of challenge water, filtered the solution through the Adya Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Clarity solution, following the EPA method 200.9.

RESULTS

The Arsenic concentration for the challenge water and filtered Adya Clarity Mineral Solution are summarized in the following table:

Parameter Tested	Water Solution	Clarity 3 mL/L after 24 hrs.	Clarity 3 mL/L after 48 hrs.
Arsenic III	56.8 µg/L	0.8 µg/L	<0.5 µg/L

CONCLUSION

The concentration of Arsenic was 0.8 µg/L after 24 of adding Adya Clarity and filtering the solution, and less than 0.5 µg/L after 48 hours of adding Adya Clarity and filtering the solution through the Adya Ceramic Filter System.

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ADYA CLARITY MINERAL SOLUTION LEAD REDUCTION TEST REPORT

Report # 14-130 (Adya Clarity Mineral Solution)
Customer Name: Adya, Inc.
Report Date: May 19, 2014

EXECUTIVE SUMMARY

A challenge water prepared with Lead a concentration of 150 µg/L. Adya Clarity Mineral Solution was added to the solution at a concentration of 2 mL of Clarity per liter of challenge water. The solution was filtered through the Adya Ceramic Filter System, then tested for Lead after 24, and 48 hours of adding the Clarity solution. The concentration of Lead decreased to non-detectable levels.

INTRODUCTION

A challenge water prepared with Lead a concentration of 150 µg/L. Adya Clarity Mineral Solution was added to the solution at a concentration of 2 mL of Clarity per liter of challenge water. The solution was filtered through the Adya Ceramic Filter System, then tested for Lead after 24, and 48 hours of adding the Clarity solution. The concentration of Lead decreased to non-detectable levels.

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Lead Standard Solution.
Adya Clarity Mineral Solution.
Adya Ceramic Filter System.

PROCEDURE

A challenge water solution was prepared with DI water and Lead standards at a concentration of about 150 µg/L; then added Adya Clarity Mineral Solution to the challenge water at a concentration of 2 mL of Clarity per liter of challenge water, filtered the solution through the Adya Ceramic Filter System, then tested for Lead after 24, and 48 hours of adding the Clarity solution, following the EPA method 200.9.

RESULTS

The Lead concentrations for the challenge water and filtered Adya Clarity Mineral Solution are summarized in the following table:

Parameter Tested	Water Solution	Clarity 2 mL/L after 24 hrs.	Clarity 2 mL/L after 48 hrs.
Lead	149.5 µg/L	<2 µg/L	<2 µg/L

CONCLUSION

The concentration of Lead decreased to non-detectable levels when using the Adya Clarity mineral solution combined with the Adya Ceramic Filter System.

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ADYA CLARITY MINERAL SOLUTION MERCURY REDUCTION TEST REPORT

Report # 14-130 (Adya Clarity Mineral Solution)
Customer Name: Adya, Inc.
Report Date: May 19, 2014

EXECUTIVE SUMMARY

A challenge water prepared with Mercury at a concentration of 6 µg/L. Adya Clarity Mineral Solution was added to the solution at a concentration of 2 mL of Clarity per liter of challenge water. The solution was filtered through the Adya Ceramic Filter System, then tested for Mercury after 24, and 48 hours of adding the Clarity solution. The concentration of Mercury decreased to non-detectable levels.

INTRODUCTION

A challenge water prepared with Mercury at a concentration of 6 µg/L. Adya Clarity Mineral Solution was added to the solution at a concentration of 2 mL of Clarity per liter of challenge water. The solution was filtered through the Adya Ceramic Filter System, then tested for Mercury after 24, and 48 hours of adding the Clarity solution. The concentration of Mercury decreased to non-detectable levels.

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Mercury Standard Solution.
Adya Clarity Mineral Solution.
Adya Ceramic Filter System.

PROCEDURE

A challenge water solution was prepared with DI water and Mercury standard at a concentration of about 6 µg/L; then added Adya Clarity Mineral Solution to the challenge water at a concentration of 2 mL of Clarity per liter of challenge water, filtered the solution through the Adya Ceramic Filter System, then tested for Mercury after 24, and 48 hours of adding the Clarity solution, following the EPA method 245.1.

RESULTS

The Mercury concentrations for the challenge water and filtered Adya Clarity Mineral Solution are summarized in the following table:

Parameter Tested	Water Solution	Clarity 2 mL/L after 24 hrs.	Clarity 2 mL/L after 48 hrs.
Mercury	6.04 µg/L	<0.5 µg/L	<0.5 µg/L

CONCLUSION

The concentration of Mercury decreased to non-detectable levels when using the Adya Clarity mineral solution combined with the Adya Ceramic Filter System.

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