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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

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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.

Jaime A. Young

Jaime A. Young
Lab Director