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AURO SOLUTION MERCURY REDUCTION TEST REPORT

Report # 15-153 (Auro Solution)
Customer Name: Auro, LLC.
Report Date: July 3, 2015

EXECUTIVE SUMMARY

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

INTRODUCTION

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

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Mercury Standard Solution.
Auro Solution.
Auro 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 Auro Solution to the challenge water at a concentration of 2 mL of Auro per liter of challenge water, filtered the solution through the Auro Ceramic Filter System, then tested for Mercury after 24, and 48 hours of adding the Auro solution, following the EPA method 245.1.

RESULTS

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

Parameter Tested	Water Solution	Auro 2 mL/L after 24 hrs.	Auro 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 Auro Solution combined with the Auro Ceramic Filter System.

Jaime A. Young

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Lab Director