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EPA ID # NJ01298 NJ DEP ID # 08012

DROPS OF BALANCE MINERAL SOLUTION MERCURY REDUCTION TEST REPORT

Report # 14-130 (Drops of Balance Mineral
Solution) Customer Name: Drops of Balance
Report Date: May 19, 2014

EXECUTIVE SUMMARY

A challenge water prepared with Mercury at a concentration of 6 µg/L. Drops of Balance 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 Drops of Balance Ceramic Water Filtration 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. Drops of Balance 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 Drops of Balance Ceramic Water Filtration 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.
Drops of Balance Mineral
Solution.
Drops of Balance Ceramic
Water Filtration.

PROCEDURE

A challenge water solution was prepared with DI water and Mercury standard at a concentration of about 6 µg/L; then added Drops of Balance Mineral Solution to the challenge water at a concentration of 2 mL of Clarity per liter of challenge water, filtered the solution through the Drops of Balance Ceramic Water Filtration 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 Drops of Balance Mineral Solution are summarized in the following table:

Parameter Tested	Water Solution	Drops of Balance 2 mL/L after 24 hrs.	Drops of Balance 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 Drops of Balance mineral solution combined with the Drops of Balance Ceramic Water Filtration System.

Jaime A. Young

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Lab Director

