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MINBIOTICS™ SOLUTION ARSENIC REDUCTION TEST REPORT

Report # 17-29-Minbiotics™ Solution Report

Date: Mar 27, 2015

Customer Name: Natural Action Tech. Inc.

EXECUTIVE SUMMARY

A challenge water prepared with Arsenic III, at a concentration of 50 µg/L. Minbiotics™ 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 Minbiotics™ Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Minbiotics™ 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. Minbiotics™ 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 Minbiotics™ Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Minbiotics™ solution. The concentration of Arsenic decreased to non-detectable level after 48 hours.

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Arsenic III Standard Solution.
Minbiotics™ Solution.
Minbiotics™ 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 Minbiotics™ Solution to the challenge water at a concentration of 3 mL of Clarity per liter of challenge water, filtered the solution through the Minbiotics™ 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 Minbiotics™ Solution are summarized in the following table:

Parameter Tested	Water Solution	Minbiotics™ 3 mL/L after 24 hrs.	Minbiotics™ 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 Minbiotics™ and filtering the solution, and less than 0.5 µg/L after 48 hours of adding Minbiotics™ and filtering the solution through the PureAquaMin™ Ceramic Filter System.

Jaime A. Young

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