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PURINIZE MINERAL SOLUTION ARSENIC REDUCTION TEST REPORT

Report # 14-130 (Purinize Mineral Solution)

Customer Name: Purinize.Com.

Report Date: May 27, 2014

EXECUTIVE SUMMARY

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

REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.
Arsenic III Standard Solution.
Purinize Mineral Solution.
Purinize 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 Purinize Mineral Solution to the challenge water at a concentration of 3 mL of Purinize per liter of challenge water, filtered the solution through the Purinize Ceramic Filter System, then tested for Arsenic after 24, and 48 hours of adding the Purinize solution, following the EPA method 200.9.

RESULTS

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

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

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