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EPA ID # NJ01298 NJ DEP ID # 08012

PURINIZE CHLORIDE REDUCTION TEST REPORT

Report # 12-325-6-Cl Reduction (Purinize Mineral Solution)

Customer Name: H₂O Technologies, Inc.

Report Date: July 27, 2012

EXECUTIVE SUMMARY

Purinize Mineral Solution manufactured by H₂O Technologies, Inc. was tested following the protocol NSF Standard 42 for chlorine reduction. The solution prepared with 1 mL of the Purinize Mineral solution dissolved in a 1000 mL volumetric flask with the challenge water (2.08 ppm of Free Chlorine) reduced the Free Chlorine in the challenge water by 100.0%.

INTRODUCTION

Purinize Mineral Solution manufactured by H₂O Technologies, Inc. was tested following the protocol NSF Standard 42 for chlorine reduction. The challenge water was prepared by adding a chlorine standard to DI water in a 1000 mL volumetric to obtain a final concentration of free chlorine of 2.0 ± 0.2 mg/L (ppm); the solution was analyzed as per EPA method 330.5. After analyzing the free chlorine and other parameters of this challenge water, one milliliter of Purinize Mineral Concentrated Solution was added to the volumetric flask containing the challenge water (2.08 ppm of Free Chlorine) mixed well and analyzed as per EPA method 330.5. The solution prepared at a concentration of 1:1000 in the challenge water, reduced the free chlorine in the challenge water by 100.0%.

REAGENTS AND LAB EQUIPMENT

Purinize Mineral Concentrated Solution

Chlorine Standard Solution

Spectrophotometer (UV, Visible range)

Reagents and chemicals necessary to perform EPA approved methods for drinking water analysis.

PROCEDURE

Prepare the challenge water with free chlorine at a concentration of 2.0 ± 0.2 mg/L (ppm) by adding the appropriate amount of the chlorine standard to DI water. Analyze the final solution according to protocol NSF Standard 42. Add 1 mL of Purinize Mineral Concentrated Solution, mix well and analyze the final solution according to protocol NSF Standard 42.

RESULTS

The Free Chlorine concentrations are summarized in the following table:

Parameter Tested	Challenge Water	Purinize 1 mL/L
Free Chlorine	2.08 mg/L	<0.10 mg/L

CONCLUSION

Purinize Mineral Solution decreased the Free Chlorine concentration below the detection limit tested following the EPA method 330.5.

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