



# ENVIROTEK LABORATORIES, INC.

120 White Owl Trail, Mullica Hill, NJ 08062  
PHONE 856-478-0010 www.enviroteklab.com  
EPA ID # NJ01298 NJ DEP ID # 08012

## PURINIZE MINERAL SOLUTION LEAD REDUCTION TEST REPORT

Report # 14-130 (Purinize Mineral Solution)  
Customer Name: Purinize.Com  
Report Date: May 19, 2014

### EXECUTIVE SUMMARY

A challenge water prepared with Lead a concentration of 150 µg/L. Purinize Mineral Solution was added to the solution at a concentration of 2 mL of Purinize per liter of challenge water. The solution was filtered through the Purinize Ceramic Filter System, then tested for Lead after 24, and 48 hours of adding the Purinize solution. The concentration of Lead decreased to non-detectable levels.

### INTRODUCTION

A challenge water prepared with Lead a concentration of 150 µg/L. Purinize Mineral Solution was added to the solution at a concentration of 2 mL of Purinize per liter of challenge water. The solution was filtered through the Purinize Ceramic Filter System, then tested for Lead after 24, and 48 hours of adding the Purinize solution. The concentration of Lead decreased to non-detectable levels.

### REAGENTS AND LAB EQUIPMENT

Perkin Elmer Spectrometer.  
Lead Standard Solution.  
Purinize Mineral Solution.  
Purinize Ceramic Filter System.

### PROCEDURE

A challenge water solution was prepared with DI water and Lead standards at a concentration of about 150 µg/L; then added Purinize Mineral Solution to the challenge water at a concentration of 2 mL of Purinize per liter of challenge water, filtered the solution through the Purinize Ceramic Filter System, then tested for Lead after 24, and 48 hours of adding the Purinize solution, following the EPA method 200.9.

### RESULTS

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

Parameter Tested	Water Solution	Purinize 2 mL/L after 24 hrs.	Purinize 2 mL/L after 48 hrs.
Lead	149.5 µg/L	<2 µg/L	<2 µg/L

### CONCLUSION

The concentration of Lead decreased to non-detectable levels when using the Purinize mineral solution combined with the Purinize Ceramic Filter System.

**Jaime A. Young**

Jaime A. Young  
Lab Director