



# ENVIROTEK LABORATORIES, INC.

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EPA ID # NJ01298 NJ DEP ID # 08012

## ADYA, INC. ALUMINUM AND IRON REDUCTION TEST REPORT

Report # 12-351-Aluminum and Iron Test (Adya Clarity Mineral Solution)

Customer Name: Adya, Inc.

Report Date: December 12, 2012

### EXECUTIVE SUMMARY

Tap water was tested for Aluminum and Iron content following the EPA method 200.9, Adya Clarity was added to the tap water at a concentration of 1 mL of Adya Clarity per one liter of tap water and the solution was tested after 24 hours of adding the Adya Clarity Mineral Solution, the content of Aluminum and Iron were found above the EPA drinking water safe limits. This water solution was filtered through the Adya filtration system and the filtered water was tested for Aluminum and Iron content, the filtration system reduced the Aluminum and Iron content within the EPA drinking water safe limits.

### INTRODUCTION

Tap water was tested for Aluminum and Iron content following the EPA method 200.9, Adya Clarity was added to the tap water at a concentration of 1 mL of Adya Clarity per one liter of tap water and the solution was tested after 24 hours of adding the Adya Clarity Mineral Solution, the content of Aluminum and Iron were found above the EPA drinking water safe limits. This water solution was filtered through the Adya filtration system and the filtered water was tested for Aluminum and Iron content, the filtration system reduced the Aluminum and Iron content within the EPA drinking water safe limits.

### REAGENTS AND LAB EQUIPMENT

Perkin Elmer SIMAA 6000 Atomic Absorption Spectrophotometer.

Aluminum and Iron Certified Standard Solution.

Adya Clarity mineral solution.

Adya Water Filtration System.

### PROCEDURE

Tap water was tested as is for Aluminum and Iron content. One mL of Adya Clarity Mineral Solution was added to the tap water at a concentration of 1 mL per Liter of tap water; the solution was mixed well and set undisturbed for 24 hours. A sample of this solution was tested for Aluminum and Iron content. This solution was filtered through the Adya water filtration system, a sample of this filtered water was tested for Aluminum and Iron content. The results are summarized in the table below.

### RESULTS

The Aluminum and Iron concentrations for tap water, Adya Clarity Water Solution, and Filtered Water Solution are summarized in the following table:

Parameter Tested	Tap Water	Adya Clarity Water Solution 1 mL/L after 24 hrs.	Filtered Water Solution	EPA Drinking Water Maximum Contaminant Limit (MCL)	EPA Method
Aluminum	0.003 mg/L	1.48 mg/L	0.118 mg/L	0.200 mg/L	EPA 200.9
Iron	<0.002 mg/L	5.15 mg/L	0.125 mg/L	0.300 mg/L	EPA 200.9

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## CONCLUSION

The Adya Clarity Mineral Solution contains high levels of Aluminum and Iron when added to tap water at a dilution of 1 mL per 1,000 mL of tap water; however, after filtrating the solution through the Adya water filtration system the concentration of Aluminum and Iron are reduced within the EPA drinking water Maximum Contaminant Levels (MCL), making the filtered solution safe to drink.

**Jaime A. Young**

Jaime A. Young  
Lab Director

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