



ENVIROTEK LABORATORIES, INC.

New Jersey

ANTIBACTERIAL TEST REPORT

Report #: 21-316-Bacteria (LifeFX Water)

Date: July 31, 2012

Standard Performed: Antibacterial Test

Method Performed: m-ColiBlue-24

By: Jaime A. Young

Customer Name: LifeFX Water

EXECUTIVE SUMMARY

LifeFX Living Water Droplets Mineral solution manufactured by LifeFX Water was tested for antibacterial properties. Four control batches were prepared with four different types of Coliform bacteria in sterilized water and tested for Total Coliform/E. coli using the m-ColiBlue-24 method. Four similar Coliform batches were prepared and treated with LifeFX Living Water Droplets Mineral solution in a 1:1000 proportion and tested again using the same Coliform method. Coliform bacteria were present in the control batches but absent in the treated batches.

INTRODUCTION

LifeFX Living Water Droplets Mineral solution manufactured by LifeFX Water was tested for antibacterial properties. Four control batches were prepared with four different types of Coliform bacteria in sterilized water and tested for Total Coliform/E. coli using the m-ColiBlue-24 method. The four type of bacteria used were Escherichia coli, Enterobacter cloacae, Proteus mirabilis, and Pseudomonas aeruginosa. Four similar Coliform batches were prepared and treated with LifeFX Living Water Droplets Mineral solution in a 1:1000 proportion and tested again using the same Coliform method. Coliform bacteria were present in the control batches but absent in the treated batches.

MATERIALS

LifeFX Living Water Droplets Mineral Concentrated Solution

Potable Water Coliform ERA Catalog # 694 containing Escherichia coli, Enterobacter cloacae, Proteus mirabilis, and Pseudomonas aeruginosa at about 500 colonies forming units/mL (CFU/mL)

Sterilized water Incubator

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

PROCEDURE

1. Remove the vials from the refrigerator and allow them to warm to room temperature.
2. Place the sterilized water containers in the incubator at 35 °C for approximately 30 minutes.
3. After the 30-minute warming period, remove one sterilized water container from the incubator.
4. Carefully open the sterilized water container.
5. Open the appropriate bacteria sample vial and aseptically transfer the gelatin tablet into the sterilized water container and labeled accordingly.
6. Properly dispose the empty glass vial and pouch.
7. Reseal the sterilized water container that now contains the bacteria sample.
8. Prepared all the samples as above.
9. Place the inoculated samples into the incubator at 35 °C for an additional 30 minutes to dissolve the samples.
10. After the 30-minute dissolution period, gently shake each inoculated sample to ensure that the gelatin tablet has completely dissolved.

Report # 21-316-Bacteria

Page 1 of 2



ENVIROTEK LABORATORIES, INC.

New Jersey

11. Prepare the filter units and filter the first four samples as per method mColiBlue-24 (these are the control samples).
12. Place the filter membrane in the Petri dish and incubate for 24 hours at 35 °C.
13. Add 0.1 mL of LifeFX Living Water Droplets Mineral solution to the next four 100-mL sample prepared with the Coliform bacteria and repeat steps 11 and 12 (these are the treated samples).

RESULTS

Parameter	Control Samples	LifeFX Living Water Droplets	EPA MCL
Escherichia coli	Present	Absent	Absent
Enterobacter cloacae	Present	Absent	Absent
Proteus mirabilis	Present	Absent	Absent
Pseudomonas aeruginosa	Present	Absent	Absent

CONCLUSION

LifeFX Living Water Droplets Mineral solution prepared at 1:1000 effectively kills the four types of bacteria present in the challenge water at about 500 CFU/mL.

Jaime A. Young

Jaime A. Young
Lab Director