



ENVIROTEK LABORATORIES, INC.

33 Third Street, Bordentown, NJ 08505

PHONE 856-583-0445 www.enviroteklab.com

EPA ID # NJ01298 NJ DEP ID # 03048 NY ELAP ID # 12044

PROPUR PROMAX FULL SPECTRUM FILTER 1,4-DIOXANE TEST REPORT

Report # 17-102-1,4-Dioxane (Propur ProMax Full Spectrum Filter)

Report Date: 04/30/2017

Customer Name: Propur

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with 1,4-Dioxane Standard Solution to have a final concentration of 20 µg/L ; the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the EPA 1,4-Dioxane reduction test up to 100 gallons.

INTRODUCTION

One Hundred gallons of tap water was spiked with 1,4-Dioxane Standard Solution to have a final concentration of 20 µg/L, the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the NSF 1,4-Dioxane reduction test up to 100 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.

Restek 1,4-Dioxane Reagent Grade Standard Solution.

Propur ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with 1,4-Dioxane Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration of 20 µg/L, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested every 20 gallons following the EPA method 522 for 1,4-Dioxane in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

| Parameter | Influent Challenge Water | Target |
|-------------|--------------------------|----------------------------------|
| pH | 7.55 | 7.00 to 8.00 |
| Temperature | 21.5 °C | 20 ± 2.5°C |
| TDS | 325 mg/L | 200 to 500 mg/L |
| Turbidity | 0.75 NTU | <1 Nephelometric Turbidity Units |

Table 2
Filtered Water 1,4-Dioxane Test Results

| Drinking Water Contaminant Tested | Influent Water Results in µg/L | NSF/EPA % Reduction Limit | % Reduction at 100 gallons |
|-----------------------------------|--------------------------------|---------------------------|----------------------------|
| 1,4-Dioxane | 20.2 | 0.03 | >99.9 % |

CONCLUSION:

The Propur ProMax Full Spectrum Filter meets the EPA 1,4-Dioxane reduction test for up to 100 gallons (Health advisory limit 0.2 µg/L).



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CERTIFICATION OF RESULTS:

I certify in writing that all analyses, and reporting performed herein, comply with all requirements set forth in N.J.A.C. 7:9E and N.J.A.C. 7:18, and hereby certify that this laboratory is in compliance with all laboratory certification and quality control procedures and requirements as set forth in N.J.A.C. 7:18; the NYCRR Subpart 55-2 and the National Environmental Laboratory Accreditation Conference (NELAC) Institute Standards.

Disclaimer: The test results are only related to the filter sample tested.

Jaime A. Young

Jaime A. Young
Lab Director

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WATER
PURIFICATION
SYSTEMS

The reduction of contaminants or other substances that may be present in your water supply may vary depending on its content. The contaminants or other substances reduced are not necessarily present in all users water. Some contaminants may be more easily filtered than others. Percentage of reduction will vary over the life of the filter based on the level of contaminant(s) found in your water supply, user rate and psi of your water source. Testing was performed under standard laboratory conditions. Actual performance may vary. Do not use with water that is microbiologically unsafe or of unknown water quality with adequate disinfection.