



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 MICRO-PLASTIC TEST REPORT

Report # 17-270-Micro-Plastic (Propur ProMax Full Spectrum Filter)

Report Date: 09/26/2017

Customer Name: Propur

EXECUTIVE SUMMARY

Fifty gallons of tap water was spiked with Micro-Plastic Standard Solution to have a final concentration of 10^6 microplastic/L; the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter reduces the Micro-Plastic by more than 99.99% for up to 50 gallons.

INTRODUCTION

Fifty gallons of tap water was spiked with Micro-Plastic Standard Solution to have a final concentration of 10^6 microplastic/L, the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter reduces the Micro-Plastic by more than 99.99% for up to 50 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Amscope EPI Fluorescence Microscope FM-320TA-3M. Barnstead Lab-Line Incubator.
Polystyrene Microsphere 2 μ m, Polysciences, Inc.
Propur ProMax Full Spectrum Filter.

PROCEDURE

Fifty gallons of tap water was spiked with Micro-Plastic Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration of 10^6 microplastic/L, the influent water properties are summarized in Table 1 below. The solution was filtered through the ProMax Full Spectrum Filter and tested following the EPA method 522 for Micro-Spheres in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.50	7.00 to 8.00
Temperature	22.0 °C	20 \pm 2.5°C
TDS	350 mg/L	200 to 500 mg/L
Turbidity	0.85 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Micro-Plastic Test Results

Drinking Water Contaminant Tested	Influent Water Results	Effluent Water Test Results	% Reduction at 50 gallons
Micro-Plastic	10^6 micro-plastic/L	<10 microplastic/L	>99.9 %

CONCLUSION:

The Propur ProMax Full Spectrum Filter reduces the Micro-Plastic by more than 99.99% for up to 50 gallons.



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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

PropurTM
WATER
PURIFICATION
SYSTEMS

The reduction of contaminants or other substances that maybe 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 maybe 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.