



ENVIROTEK LABORATORIES, INC.

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

PROPUR PROMAX FULL SPECTRUM FILTER INORGANIC NON-METAL CONTAMINANTS TEST REPORT

Report # 17-03-Inorganic Non-Metal Contaminants (Propur ProMax Full Spectrum Filter)

Report Date: 03/15/2017

Customer Name: Propur

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Inorganic Non-Metal Contaminants Standard Solution to have a final concentration specified by the NSF Std. 42/53; the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the NSF reduction test, for Chlorine, Chloramine, and Fluoride up to 100 gallons, tested following the NSF Std. 42/53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Inorganic Non-Metal Contaminants Standard Solution to have a final concentration specified by the NSF Std. 53, the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the NSF reduction test, for Chlorine, chloramine, and Fluoride up to 100 gallons, tested following the NSF Std. 42/53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Unico Spectrophotometer

Sigma Aldrich Sodium Hypochlorite Reagent, Sodium Fluoride, Sodium Hexafluorosilicate, Fluorosilicic Acid, Ammonium Chloride.

Propur ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Inorganic Non-Metal Contaminants Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 42/53, 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 Standard Method of Analysis for Inorganic Non-Metal Contaminants in drinking water. The chloramine solution was produced by preparing ammonium chloride solution first, then sodium hypochlorite as per NSF Std 42 procedure. The results are summarized in Table 2 below.

RESULTS

**Table 1
Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.45	7.00 to 8.00
Temperature	20.5 °C	20 ± 2.5 °C
Turbidity	0.85 NTU	<1 Nephelometric Turbidity Units

**Table 2
Filtered Water Inorganic Non-Metal Contaminants Test Results**

Drinking Water Contaminant Tested	Influent Water Results in mg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Chlorine	2.0	1.0	99.9+ %
Sodium Fluoride	8.1	1.5	88.3 %
Hexafluorosilicate	8.2	1.5	89.3 %
Fluorosilic Acid	8.0	1.5	87.8 %
Chloramine	3.0	0.5	99.9+ %

CONCLUSION:

The Propur ProMax Full Spectrum Filter meets the NSF reduction test, for Chlorine, Chloramine, and Fluoride up to 100 gallons, tested following the NSF Std. 42/53.



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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



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.