



# ENVIROTEK LABORATORIES, INC.

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

## PROPUR PROMAX FULL SPECTRUM FILTER PHARMACEUTICAL DRUGS TEST REPORT

Report # 17-3-Pharmaceutical Drugs (Propur ProMax Full Spectrum Filter)

Report Date: 03/21/2017

Customer Name: Propur

### EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Pharmaceutical Drugs 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 Pharmaceutical Drugs reduction test up to 100 gallons, tested following the NSF Std 401.

### INTRODUCTION

One Hundred gallons of tap water was spiked with Pharmaceutical Drugs Standard Solution to have a final concentration specified by the NSF Std. 401, the spiked tap water was filtered through the filter element and tested; the Propur ProMax Full Spectrum Filter meets the NSF Pharmaceutical Drugs reduction test up to 100 gallons, tested following the NSF Std. 401.

### REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.  
 Restek Pharmaceutical Drugs Mix #1 31116, Mix #2 31118, Mix #3 31117  
 Propur ProMax Full Spectrum Filter.

### PROCEDURE

One Hundred gallons of tap water was spiked with Pharmaceutical Drugs Standard Solution in a tank and mixed well; this solution was tested and adjusted to have a final concentration specified by the NSF Std. 401, 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 for Pharmaceutical Drugs in drinking water. The results are summarized in Table 2 below.

### RESULTS

**Table 1**  
**Influent Challenge Water Properties**

Parameter	Influent Challenge Water	Target
pH	7.30	7.00 to 8.00
Temperature	21.5 °C	20 ± 2.5°C
TDS	390 mg/L	200 to 500 mg/L
Turbidity	0.60 NTU	<1 Nephelometric Turbidity Units

**Table 2**  
**Filtered Water Pharmaceutical Drugs Test Results**

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA % Reduction Limit	% Reduction at 100 gallons
Bisphenol A	19.3	<0.2	99.9+ %
Ibuprofen	12.1	<0.2	99.9+ %
Trimethoprim	19.8	<0.2	99.9+ %
Naproxen	19.5	<0.2	99.9+ %
Acetaminophen	20.3	<0.2	99.9+ %
Ciprofloxacin	17.9	<0.2	99.9+ %
Sulfamethoxazole	20.4	<0.2	99.9+ %
17-beta-Estradiol	19.9	<0.3	99.9+ %
Caffeine	19.8	<0.2	99.9+ %
Fluoxetine	18.9	<0.2	99.9+ %
Gemfibrozil	16.7	<0.2	99.9+ %
Triclosan	16.8	<0.2	99.9+ %
Estrone	20.7	<0.2	99.9+ %
Diclofenac Sodium	22.2	<0.2	99.9+ %
Primidone	13.1	<0.06	99.9+ %
Carbamazepine	16.5	<0.02	99.9+ %
Erythromycin	ND	<0.2	99.9+ %
Testosterone	8.8	<0.01	99.9+ %
Progesterone	20.0	<0.01	99.9+ %



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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA % Reduction Limit	% Reduction at 100 gallons
4-tert-Octylphenol	20.0	<0.01	99.9+ %
17-alpha-Ethinylestradiol	ND	<0.01	99.9+ %
4-para-Nonylphenol	20.0	<0.1	99.9+ %

### CONCLUSION:

The Propur ProMax Full Spectrum Filter meets the NSF Pharmaceutical Drugs reduction test for up to 100 gallons, tested following the NSF Std. 401.

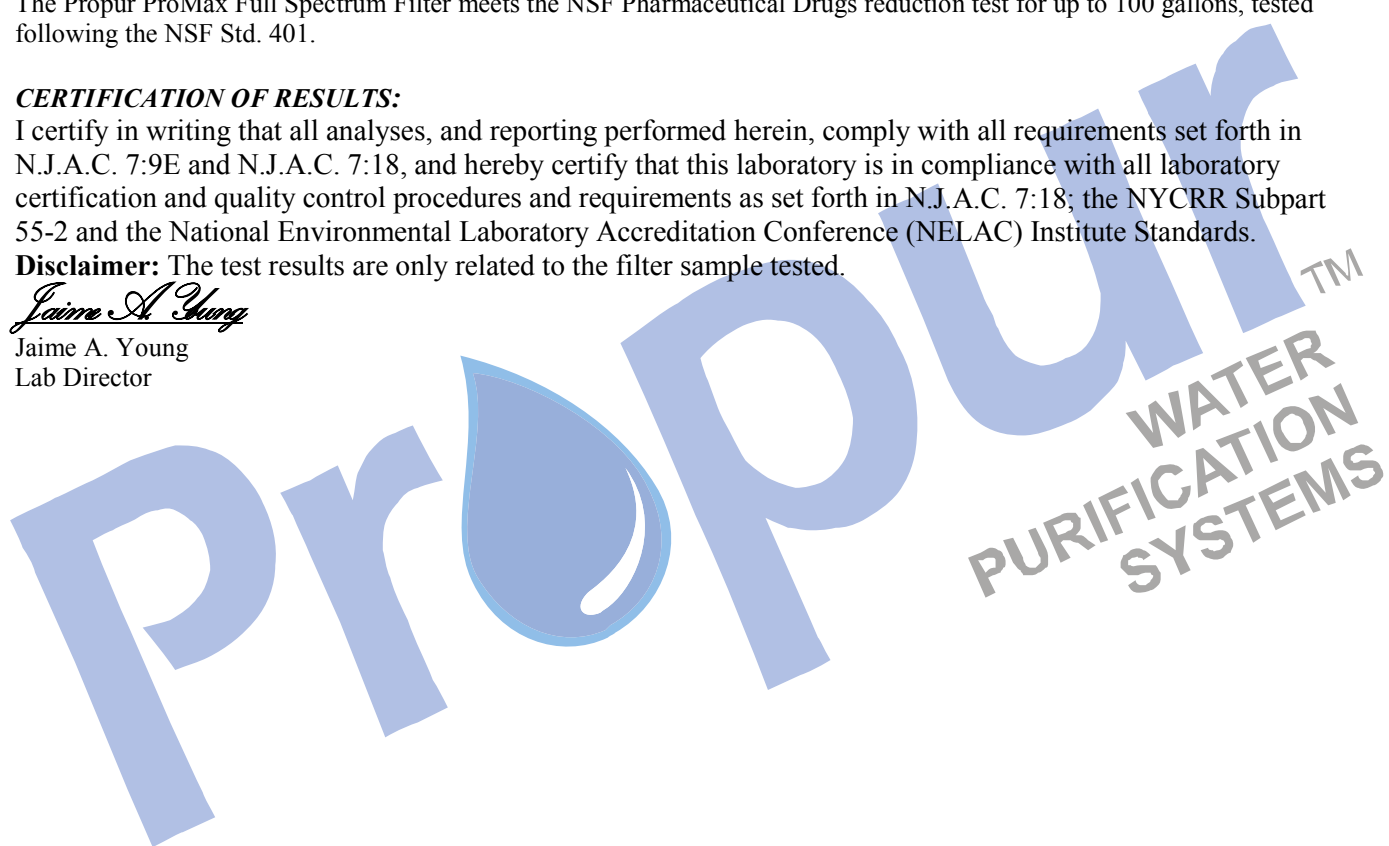
### CERTIFICATION OF RESULTS:

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.