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

PROPUR PROMAX FULL SPECTRUM FILTER PESTICIDE CONTAMINANTS TEST REPORT

Report # 17-03-Pesticide Contaminants (Propur ProMax Full Spectrum Filter)
Report Date: 03/21/2017
Customer Name: Propur

EXECUTIVE SUMMARY

One Hundred gallons of tap water was spiked with Pesticide Contaminants (Industrial Waste Compounds) 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 Pesticide Contaminants reduction test up to 100 gallons, tested following the NSF Std. 53.

INTRODUCTION

One Hundred gallons of tap water was spiked with Pesticide 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 Pesticide Contaminants reduction test up to 100 gallons, tested following the NSF Std. 53.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Agilent GC/MS 6890 plus/5973 mass spectrometer.
Restek Pesticides Mix AB#3 Standard Solution Catalog # 32415
CPI Pesticide Mix 12-681 Standard Solution Catalog # Z-135681-06
Restek Glyphosate Standard Solution Catalog #32426
Propur ProMax Full Spectrum Filter.

PROCEDURE

One Hundred gallons of tap water was spiked with Pesticide 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. 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 EPA method 525 for Pesticide Contaminants in drinking water. The results are summarized in Table 2 below.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.85	7.00 to 8.00
Temperature	21.5 ℃	20 ± 2.5℃
TDS	410 mg/L	200 to 500 mg/L
Turbidity	0.75 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Pesticide Contaminants Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Alachlor	52.3	Not specified	99.9+ %
Hexachlorobenzene	54.2	Not specified	99.9+ %
Hexachlorocyclopentadiene	56.9	Not specified	99.9+ %
Delta-BHC	49.4	Not specified	99.9+ %
Propachlor	51.8	Not specified	99.9+ %
Molinate	54.2	Not specified	99.9+ %
Alpha-BHC	47.0	Not specified	99.9+ %
Beta-BHC	47.9	Not specified	99.9+ %
Gamma-BHC (Lindane)	49.3	0.2 µg/L	99.9+ %
Atrazine	51.9	Not specified	99.9+ %
Simazine	52.0	Not specified	99.9+ %
Metribuzin	52.2	Not specified	99.9+ %
Heptachlor	47.6	0.4 µg/L	99.9+ %
Metolachlor	50.4	Not specified	99.9+ %
Butylate	44.5	Not specified	99.9+ %
2,4-D	50.4	Not specified	99.9+ %

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Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF/EPA Effluent Maximum Contaminant Limit (MCL)	% Reduction at 100 gallons
Aldrin	45.8	Not specified	99.9+ %
Heptachlor Epoxide	51.5	Not specified	99.9+ %
Trans-Chlordane (Nonachlor)	49.5	Not specified	99.9+ %
Butachlore	49.3	Not specified	99.9+ %
Endosulfan I	43.9	Not specified	99.9+ %
Cis-Chlordane	49.8	Not specified	99.9+ %
p,p'-DDE	57.4	Not specified	99.9+ %
Dieldrin	47.5	Not specified	99.9+ %
Endrin	63.9	2 µg/L	99.9+ %
Endosulfan II	33.7	Not specified	99.9+ %
p,p'-DDD	44.0	Not specified	99.9+ %
Endrin Aldehyde	46.1	Not specified	99.9+ %
p,p'-DDT	59.5	Not specified	99.9+ %
Endosulfan Sulfate	15.0	Not specified	99.9+ %
Endrin Ketone	7.3	Not specified	99.9+ %
Methoxychlor	49.1	Not specified	99.9+ %
Glyphosate	2135	700 µg/L	99.9+ %

CONCLUSION:
The Propur ProMax Full Spectrum Filter meets the NSF Pesticide Contaminants reduction test for up to 100 gallons, tested following the NSF Std. 53.

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
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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.