ENVIROTEK LABORATORIES, INC.
Wilmington, Delaware 19804
PHONE 856-583-0445 www.enviroteklab.com
EPA ID # DE00946 IAPMO ID # 000102

TEST RESULTS

FOR

ProOne Water Filters

1200 BENSTEIN ROAD

COMMERCE TWP. MICHIGAN, 48390

Filter Element ProOne® G2.0

NSF Standard 53, and NSF Standard 42

NSF Standard 401 NSF P-473

NSF P231

Chemical Reduction Tests Results

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FILTER ELEMENT PROONE® G2.0 WATER TEST REPORT

Report # 16-326 (Filter Element ProOne® G2.0)
Updated Report Date: 05/01/2020
Customer Name: ProOne Water Purification Systems

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	Filter Element ProOne® G2.0 Effluent Concentration in µg/L	% Reduction
Volatile Organic Contaminants in µg/L			
Dichlorodifluoromethane	80.5	<0.1	99.9+
Chloromethane	80.2	<0.1	99.9+
Vinylchloride	80.3	1.0	98.8
Bromomethane	80.5	0.2	99.8
Chloroethane	80.2	1.9	97.6
Trichlorofluoromethane	81.1	3.49	95.7
1,1-Dichloroethene	83.0	0.3	99.6
Methylene Chloride	81.2	1.7	97.9
trans-1,2-Dichloroehene	81.5	<0.1	99.9+
MTBE	81.5	3.0	96.3
1,1-Dichlorethane	82.2	<0.1	99.9+
cis-1,2-Dichloroethene	170.1	<0.1	99.9+
2,2-Dichloropropane	81.1	<0.1	99.9+
Bromochloromethane	80.0	<0.1	99.9+
Carbon Tetrachloride	81.0	<0.1	99.9+
1,1,1-Trichloroethane	81.2	<0.1	99.9+
1,1-Dichloropropene	81.2	<0.1	99.9+
Benzene	81.4	<0.1	99.9+
1,2-Dichloroethane	80.4	0.2	99.8
Trichloroethene	180.3	0.2	99.9
Dibromomethane	80.1	0.5	99.4
1,2-Dichloropropane	80.3	0.8	99.0
cis-1,3-Dichloropropene	50.2	0.2	99.6
Toluene	80.2	0.2	99.8
trans-1,3-Dichloropropene	81.0	<0.1	99.9+
Tetrachloroethene	80.1	<0.1	99.9+
1,1,2-Trichloroethane	150.3	<0.1	99.9+
1,3-Dichloropropane	79.1	0.4	99.5
Ethylbenzene	82.0	0.7	99.1
Chlorobenzene	79.5	<0.1	99.9+
1,1,1,2-Tetrachloroethane	79.8	<0.1	99.9+
m-Xylene	70.1	<0.1	99.9+
o-Xylene	70.1	<0.1	99.9+
Styrene	80.0	<0.1	99.9+
Isopropylbenzene	80.3	<0.1	99.9+
n-Propylbenzene	80.2	<0.1	99.9+
Bromobenzene	80.0	<0.1	99.9+
1,1,2,2-Tetrachloroethane	81.0	<0.1	99.9+
1,3,5-Trimethylbenzene	80.1	<0.1	99.9+
2-Chlorotoluene	80.2	0.4	99.5
1,2,3-Trichloropropane	80.2	0.3	99.6
4-Chlorotoluene	80.2	0.4	99.5
tert-Butylbenzene	80.2	<0.1	99.9+
1,2,4-Trimethylbenzene	80.5	<0.1	99.9+
sec-Butylbenzene	80.3	<0.1	99.9+
4-Isopropyltoluene	80.2	0.2	99.8
1,3-Dichlorobenzene	80.1	<0.1	99.9+
1,4-Dichlorobenzene	40.3	<0.1	99.9+
n-Butylbenzene	80.2	<0.1	99.9+
1,2-Dichlorobenzene	80.3	<0.1	99.9+
Hexachlorobutadiene	44.0	0.2	99.5

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Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	Filter Element ProOne® G2.0 Effluent Concentration in µg/L	% Reduction
Volatile Organic Contaminants in µg/L			
1,2,4-Trichlorobenzene	160.2	<0.1	99.9+
Naphthalene	80.4	0.9	98.9
1,2,3-Trichlorobenzene	80.1	0.5	99.4
Total Trihalomethanes in µg/L			
Chloroform	80.1	1.4	98.3
Bromodichloromethane	80.2	1.1	98.6
Chlorodibromomethane	80.4	<0.1	99.9+
Bromoform	80.2	0.8	98.9
Total Trihalomethanes (THMs)	320.9	3.3	99.4
Heavy Metal Contaminants in µg/L			
Aluminum	220	4.3	98.0
Antimony	6.2	<0.5	99.9+
Arsenic (+3 and +5)	310	2.7	99.7
Beryllium	50.3	<0.5	99.9+
Bismuth	50.1	1.2	97.6
Cadmium	30.2	<0.5	99.9+
Chromium (+3 and +6)	302	3.9	98.7
Copper	3050	310	89.8
Iron	3030	31	99.0
Lead	152	<0.5	99.9+
Manganese	1020	2.9	99.7
Mercury	6.1	<0.1	99.9+
Nickel	102	0.7	99.3
Selenium	106	<	99.9+
Vanadium	102	<1	99.9+
Zinc	102	<1	99.9+
Pesticide Contaminants in µg/L			
4,4'-DDD	50.2	<0.1	99.9+
4,4'-DDE	50.3	<0.1	99.9+
4,4'-DDT	50.4	<0.1	99.9+
Alachlor	40.4	0.2	99.5
Aldrin	50.2	<0.1	99.9+
Alpha-BHC	49.8	<0.1	99.9+
Ametryn	50.0	<0.1	99.9+
Atraton	51.2	<0.1	99.9+
Atrazine	9.9	<0.1	99.9+
Beta-BHC	49.9	<0.1	99.9+
Bromacil	51.2	<0.1	99.9+
Carbofuran	80.2	<0.1	99.9+
Chlordane	40.2	0.2	99.5
Chlorneb	51.0	0.3	99.4
Chlorobenzilate	49.9	0.3	99.4
Chlorothalonil	50.2	0.2	99.6
Chlorprophane	51.2	0.2	99.6
Chlorpyrifos	51.3	0.2	99.6
Cyanizene	51.1	0.3	99.4
Delta-BHC	50.9	0.4	99.2
Dichlorvos	50.2	0.3	99.4
Dieldrin	50.9	0.5	99.0
Diphenamid	51.2	0.8	98.4
Disulfoton	50.4	0.9	98.2
Endosulfan Sulfate	51.0	0.5	99.0
Endrin	6.1	0.8	86.9
Endrin Aldehide	51.5	0.7	98.6
Endrin Ketone	51.0	0.6	98.8
Endusulfan I	49.8	0.4	99.2
Endusulfan II	50.3	0.8	98.4
Ethoprop	50.4	0.9	98.2

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Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	Filter Element ProOne® G2.0 Effluent Concentration in µg/L	% Reduction
Pesticide Contaminants in µg/L			
Fenamiphos	51.2	0.6	98.8
Fenarimol	50.4	0.9	98.2
Fluoridone	51.4	0.3	99.4
Gamma-BHC (Lindane)	2.1	<0.1	99.9+
Glyphosate	798	0.2	100.0
Heptachlor	80.0	0.6	99.3
Heptachlor Epoxide	4.0	0.6	85.0
Methoxychlor	122	0.8	99.3
Molinate	50.4	0.6	98.8
PCB's	10.4	0.7	93.3
Prometron	50.1	0.2	99.6
Simazine	12.0	0.1	99.2
Toxaphene	15.3	0.1	99.3
Semivolatile Contaminants in µg/L			
Acenaphthylene	50.2	1.0	98.0
Anthracene	50.2	1.1	97.8
Benz[a]anthracene	51.8	1.1	97.9
Benzo[b]fluoranthene	50.4	1.2	97.6
Benzo[k]fluoranthene	50.4	1.3	97.4
Benzo[a]pyrene	51.9	1.2	97.7
Benzo[g,h,i]perylene	50.2	1	98.0
Butylbenzylphthalate	50.4	1.2	97.6
Carboxin	50.5	1.1	97.8
2-Chlorobiphenyl	50.4	1.2	97.6
Chrysene	50.5	1.3	97.4
Cycloate	49.8	0.5	99.0
Dacthal (DCPA)	49.6	0.5	99.0
Diazinon	50.2	0.6	98.8
Dibenz[a,h]anthracene	50.3	0.8	98.4
Di-n-Butylphthalate	51.4	0.9	98.2
2,3-Dichlorobiphenyl	52.3	0.9	98.3
Diethylphthalate	50.2	0.9	98.2
Di(2-ethylhexyl)adipate	51.2	0.2	99.6
Di(2-ethylhexyl)phthalate	50.3	0.8	98.4
Dimethylphthalate	51.8	0.2	99.6
EPTC	52.3	0.8	98.5
Fluorene	51.2	0.9	98.2
2,2', 3,3', 4,4', 6-Heptachlorobiphenyl	50.0	0.8	98.4
Hexachlorobenzene	49.9	0.9	98.2
2,2', 4,4', 5,6'-Hexachlorobiphenyl	51.2	0.6	98.8
Hexachlorocyclohexane, alpha	50.0	0.9	98.2
Hexachlorocyclohexane, beta	50.2	0.9	98.2
Hexachlorocyclohexane, delta	50.4	0.9	98.2
Hexachlorocyclopentadiene	51.9	0.9	98.3
Hexazinone	51.4	0.2	99.6
Indeno[1,2,3,c,d]pyrene	50.1	0.8	98.4
Isophorone	50.0	0.2	99.6
Merphos	50.5	0.2	99.6
Methyl Paraoxon	50.8	0.2	99.6
Norflurazon	50.4	0.2	99.6
2,2', 3,3', 4,5', 6,6'-Octachlorobiphenyl	51.2	0.2	99.6
Pebulate	50.8	0.2	99.6
2,2', 3', 4,6'-Pentachlorobiphenyl	49.2	0.5	99.0
Pentachlorophenol	51.2	0.5	99.0
Phenanthrene	50.1	0.5	99.0
cis-Permethrin	50.2	0.2	99.6
trans-Permethrin	49.0	0.5	99.0
Prometon	51.0	0.5	99.0
Prometryn	51.0	0.2	99.6

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Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	Filter Element ProOne® G2.0 Effluent Concentration in µg/L	% Reduction
Pronamide	49.0	0.3	99.4
Propachlor	50.0	0.3	99.4
Propazine	50.9	0.6	98.8
Trialemefon	49.2	0.9	98.2
2,4,5-Trichlorobiphenyl	49.0	0.2	99.6
Tricyclazole	49.4	0.5	99.0
Trifluralin	50.5	0.2	99.6
Vernolate	50.2	0.3	99.4
Disinfectant and Inorganic Non-Metallic Contaminants in mg/L			
Chloramines	3.1	<0.1	99.9+
Free Chlorine	2.1	<0.1	99.9+
Chloride	250	<0.1	99.9+
Perchlorate	0.100	<0.004	99.9+
Cyanide	50	<0.1	99.9+
Sodium Fluoride	8.0	0.2	97.5
Hexafluorosilicate	8.3	0.4	94.0
Fluorosilic Acid	8.1	0.3	96.3
Nitrates	27.2	0.5	98.2
Nitrites	2.9	<0.1	99.9+
Turbidity	11.0	<0.5	99.9+
Herbicide Contaminants in µg/L			
Dalapon	152	0.1	99.9
Dicamba	150	0.5	99.7
Dinosep	20.2	0.9	95.5
Dichlorporp	150	0.8	99.5
2,4-D	210	0.7	99.7
Pentachlorophenol	10.2	0.8	92.2
Picoram	151	0.5	99.7
2,4,5-T	152	0.9	99.4
2,4,5-TP (Silvex)	151	0.8	99.5
2,4-DB	150	1.2	99.2
Bentazom	149	0.9	99.4
DCPA	149	1.3	99.1
Quinclorac	151	0.9	99.4
Aciflurfen	149	0.7	99.5
Pharmaceutical Drugs Contaminants in µg/L			
Acetaminofen	20.2	0.8	96.0
Caffeine	19.8	0.9	95.5
Carbamazepine	20.3	0.8	96.1
Ciprofloxacin HCl	20.4	0.9	95.6
Erythromycin USP	20.5	0.7	96.6
Sulfamethoxazole	20.6	0.5	97.6
Trimethoprim	21.0	0.4	98.1
Bisphenol A	20.9	0.9	95.7
Diclofenac Sodium	19.6	0.9	95.4
4-para-Nonylphenol	20.0	0.6	97.0
4-tert-Octylphenol	20.4	0.8	96.1
Primidone	20.9	0.9	95.7
Progestrone	20.5	1.1	94.6
Gemfibrozil	20.4	1.2	94.1
Ibuprofen	20.3	0.9	95.6
Naproxen Sodium	20.2	0.9	95.5
Triclosan	20.9	1.1	94.7
Microbilogical Contaminants in Colonies Forming Units/100mL (CFU/mL)			
Total coliform	10^8/L	1 CFU/100mL	99.999+
Eschericia coli	10^8/L	0 CFU/100mL	99.999+
Fecal Coliform	10^8/L	0 CFU/100mL	99.999+
Klebsiella pneumoniae	10^8/L	0 CFU/100mL	99.999+

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Cryptosporidium, Giardia lamblia (polystyrene Microsphere)	10^6 microspheres/L	<10 oocysts/L	99.999+
Radiological Contaminants (pCi/L)			
Gross Alpha: Americum 241 Plutonium 236 Uranium 238 Thorium 232 Radium 226 and 228 Polonium 210	35.50 pCi/L	6.53 pCi/L	81.6%
Drinking Water Contaminant Tested	**Influent Water Concentration in µg/L**	**Filter Element ProOne® G2.0 Effluent Concentration in µg/L**	**% Reduction**
Gross Beta: Tritium Cobalt 60 Strontium 70 Technetium 99 Iodine 129 and 131 Cesium 137	24.91 pCi/L	3.95 pCi/L	84.1%
Fluorinated Organic Acids in µg/L			
Perfluorobutane Sulfonate (PFBS)	1.0	<0.002	99.9+
Perfluorodecanoic acid (PFDA)	1.0	<0.002	99.9+
Perfluorohexanoic acid (PFHxA)	1.0	<0.002	99.9+
Perfluorononanoic acid (PFNA)	1.0	<0.002	99.9+
Perfluorooctanoic Acid (PFOA) Surrogate (C8)	1.0	<0.002	99.9+
Perfluorooctane Sulfonate (PFOS)	1.0	<0.002	99.9+
Perfluorohexane Sulfonate (PFSxS)	1.0	<0.002	99.9+
Polytetrafluoroethylene (PTFE)	1.0	<0.002	99.9+
Fluorotelomer alcohol 8:2 (PTOH)	1.0	<0.002	99.9+
Copepods (Parasite) Contaminants			
Tigriopus californicus	10^4/L	0	99.999+
Tisbe biminiensis	10^4/L	0	99.999+
Apocyclops panamensis	10^4/L	0	99.999+
Blue-Green Algae (Parasite) Contaminants			
Microspora amoena (green algae)	10^4/L	0	99.999+
Anabaena (blue-green algae)	10^4/L	0	99.999+
Eucapsis (blue-green algae)	10^4/L	0	99.999+
Fischerella (blue-green algae)	10^4/L	0	99.999+
Spirulina (blue-green algae)	10^4/L	0	99.999+
Merismopedia (blue-green algae)	10^4/L	0	99.999+
Tolypothrix (blue-green algae)	10^4/L	0	99.999+
Micro-Plastic Contaminants			
Micro-plastic spheres (2 microns size)	10^6 microspheres/L	<10 microspheres/L	99.999+
1,4 – Dioxane			
1,4-Dioxane	20.1	<0.2	>99.9%

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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 Young
Lab Director

The reduction of contaminants or other substances that may be present in your water supply may vary depending a wide variety of factors. The purchaser of this filter cannot rely on the results from this lab report, and there is no guarantee that the purchaser of this filter will obtain the same or similar results to those in this lab report. Actual results may vary from the results in this lab report depending upon water sources, the installation of the water filter and related products and other factors. 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 contaminants found in your water supply, user rate and psi of your water source. Testing was performed under standard laboratory conditions. Do not use with water that is microbiologically unsafe or of unknown water quality without adequate disinfection.
This filter is covered by a 30-day money back refund and limited warranty. For more information, see www.prooneusa.com, Terms and Conditions.

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

PROONE FILTER EMERGING CONTAMINANTS TEST REPORT

Report # 17-01-Emerging Contaminants (ProOne G2.0 Filter)
Report Date: 05/01/2020
Customer Name: ProOne

EXECUTIVE SUMMARY/INTRODUCTION

One Hundred gallons of tap water was spiked with Emerging Contaminants 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 Emerging Contaminants drugs in the tap water were reduced by at least 86.3% after 100 gallons.

RESULTS

Table 1
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.65	7.00 to 8.00
Temperature	20.5 C	20 2.5 C
TDS	350 mg/L	200 to 500 mg/L
Turbidity	0.60 NTU	<1 Nephelometric Turbidity Units

Table 2
Filtered Water Emerging Contaminants Test Results

Drinking Water Contaminant Tested	Influent Water Results in µg/L	NSF Max. Limit	Filter Results 100 gallons	% Reduction at 100 gallons
Bisphenol A	2.050	0.300	<0.010	99.9+
Trimethoprim	0.139	0.020	0.019	86.3%
Estrone	0.141	0.020	0.019	86.5%
Naproxen	0.141	0.020	<0.010	99.9+
Ibuprofen	0.401	0.060	<0.010	99.9+
Metolachlor	1.395	0.200	0.092	93.4%
Carbamazepine	1.404	0.200	<0.010	99.9+
Meprobamate	0.399	0.060	0.035	91.2%
Phenitoin	0.199	0.030	<0.010	99.9+
Atenolol	0.201	0.030	<0.010	99.9+
Linuron	0.139	0.020	<0.010	99.9+
Nonyl Phenol	1.394	0.200	0.130	90.7%
DEET	1.389	0.200	<0.010	99.9+
TCPP	5.071	0.700	0.109	97.9%
TCEP	4.962	0.700	0.142	97.1%

CONCLUSION:

The ProOne G 2.0 Filter reduces the Emerging Contaminants concentration by at least 86.3% at 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

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EPA ID # NJ01298 NJ DEP ID # 08012

MICROCYSTIN LR REDUCTION TEST REPORT

Report # 14-227-Microcystin LR Reduction Test (ProOne G2.0 Filter System)
Customer Name: ProOne Water Purification Systems
Report Date: 5/01/2020

EXECUTIVE SUMMARY

Five gallons of tap water were spiked with Microcystin LR to obtain a final concentration of 10 µg/L, the spiked tap water was filtered through the ProOne G2.0 filter system and tested; the Microcystin in the tap water was reduced by at least 99.0%.

INTRODUCTION

Five gallons of tap water were spiked with Microcystin LR to obtain a final concentration of 10 µg/L, the spiked tap water was filtered through the ProOne G2.0 filter system; the spiked solution and the filtered solution were tested a HPLC/DAD method; the Microcystin in the tap water was reduced by at least 99.0%.

REAGENTS AND LAB EQUIPMENT

ProOne G2.0 Filter System
Microcystin ALX-350-012-C500 Enzo Life Sciences, Inc. lot 02211428. Standard Grade (99.99%)
Agilent HPLC 1200 DAD System with ChemStation data system.
Agilent Zorbax Eclipse XDB-C18 ODSR 993967-902 column 150 mm lengths, 4.6 mm diameter, 1.8 µm particle size.
Micro syringes and type A glassware necessary to perform the method for drinking water analysis.

PROCEDURE

Five gallons of tap water were spiked with 190 µg of Microcystin to obtain a final concentration of 10 µg/L. The solution was filtered through ProOne G2.0 filter system; the spiked solution and the filtered solution were tested using HPLC/DAD method. The results are summarized in Tables 1 and 2 below.

RESULTS

Table 1
Spiked Tap Water Properties

Parameter	Spiked Tap Water	Target
pH	7.55	7.00 to 8.00
TDS	450 mg/L	200 to 500 mg/L
Temperature	21.5 C	20 2.5 C
Turbidity	0.75 NTU	< 1 Nephelometric Turbidity Units
Free Chlorine	0.25 mg/L	0.25 to 2.0 mg/L
Microcystin-LR	10.2 µg/L	10 µg/L

Table 2
Filtered Water Results

Parameter Tested	ProOne G2.0 Filtered Water Result	% Reduction
Microcystin-LR	<0.1 µg/L	99.0 %

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CONCLUSION
The ProOne G2.0 filter reduced the Microcystin LR concentration in the tap water by at least 99.0 %.

Jaime A. Young
Jaime A. Young
Lab Director

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EPA ID # NJ01298 NJ DEP ID # 08012

PROONE-G2.0 NSF PROTOCOL P231 TEST REPORT

Report # 14-286 (ProOne-G2.0)
Report Date: 5/01/2020
Customer Name: ProOne Water Purification Systems

EXECUTIVE SUMMARY

The ProOne-G2.0 filter element was tested for Microbiological Reduction following the NSF protocol P231 for a total volume of 50 gallons. The ProOne-G2.0 filter qualifies as a microbiological water purifier set forth by the NSF protocol P231 for 50 gallons.

INTRODUCTION

The ProOne-G2.0 filter element was tested for Microbiological Reduction following the NSF protocol P231 for a total volume of 50 gallons. The filter was challenged with tap water adjusted and spiked with Bacteria (Klebsiella terrigena); virus (Poliovirus 1 and Rotavirus); and Cyst (Giardia lamblia) and tested using Standard Methods for the Examination of Water. The ProOne-G2.0 filter qualifies as a microbiological water purifier set forth by the NSF protocol P231 for 50 gallons.

REAGENTS, MATERIALS, AND LAB EQUIPMENT

Barnstead Lab-Line Incubator.
Klebsiella terrigena (produced by overnight growth in nutrient broth).
Poliovirus 1 (Virus)/Rotavirus (produced by the Smith and Gerba technique from bovine and porcine sources).
Giardia lamblia (Polybead 4-6 micron spheres Cat 17134 Lot 614641).
Sterile water, phosphate buffer.
Amscope Mircroscope Digital Model MD600.
ProOne-G2.0 Water Filter Element.

PROCEDURE

Flushed the filter with approximately 1 gallon of sterile water. Prepared 5 gallons of challenge influent water daily with Klebsiella terrigena at a concentration of 10^8/L, Poliovirus at 10^7/L, Rotavirus at 10^7/L, and Giardia lamblia at 10^6/L. Tables 2, 4, 6, and 8 summarize the Influent water properties for each micro-organism. Passed 5 gallons of Influent water through the filter per day, every day until a total volume of 50 gallons passed through the filter. Collected the effluent water and analyzed the filtered water every 5 gallons for micro-organisms following the Standard Methods of Analysis of Water 21st Edition, methods SM 9222-F (Klebsiella); SM 9510-B (virus); SM9711-B (cyst). The results are summarized in Tables 1, 3, 5, and 7 below.

RESULTS

Table 1
Klebsiella terrigena (Bacteria) Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	Criteria: Minimum % Reduction 99.9999
Initial (1 gallon)	10^8/L	<10 CFU/L	>99.9999	Passed
5 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
10 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
15 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
20 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
25 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
30 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
35 gallons	10^8/L	<10 CFU/L	>99.9999	Passed
40 gallons	10^8/L	10 CFU/L	99.9999	Passed
45 gallons	10^8/L	20 CFU/L	99.9999	Passed
50 gallons	10^8/L	30 CFU/L	99.9999	Passed

Table 2
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.20 to 7.50	6.5 to 8.5
Temperature	20.5 qC to 22.5 qC	20 r 5qC
TDS	250 to 450 mg/L	50 - 500 mg/L
Turbidity	2.5 to 4.5NTU	0.1 to 5 Nephelometric Turbidity Units
TOC	2.7 to 3.5.mg/L	0.1 to 5.0 mg/L

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Table 3
Poliovirus 1 (Virus) Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	Criteria: Minimum % Reduction 99.99
Initial (1 gallon)	10^7/L	<10 PFU/L	>99.99	Passed
5 gallons	10^7/L	<10 PFU/L	>99.99	Passed
10 gallons	10^7/L	<10 PFU/L	>99.99	Passed
15 gallons	10^7/L	<10 PFU/L	>99.99	Passed
20 gallons	10^7/L	<10 PFU/L	>99.99	Passed
25 gallons	10^7/L	<10 PFU/L	>99.99	Passed
30 gallons	10^7/L	<10 PFU/L	>99.99	Passed
35 gallons	10^7/L	<10 PFU/L	>99.99	Passed
40 gallons	10^7/L	10 PFU/L	99.99	Passed
45 gallons	10^7/L	10 PFU/L	99.99	Passed
50 gallons	10^7/L	10 PFU/L	99.99	Passed

Table 4
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.20 to 7.80	6.5 to 8.5
Temperature	18.5 qC to 20.5 qC	20 r 5qC
TDS	250 to 350 mg/L	50 - 500 mg/L
Turbidity	2.5 to 4.5NTU	0.1 to 5 Nephelometric Turbidity Units
TOC	2.6 to 3.8.mg/L	0.1 to 5.0 mg/L

Table 5
Rotavirus (Virus)Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	Criteria: Minimum % Reduction 99.99
Initial (1 gallon)	10^7/L	<10 PFU/L	>99.99	Passed
5 gallons	10^7/L	<10 PFU/L	>99.99	Passed
10 gallons	10^7/L	<10 PFU/L	>99.99	Passed
15 gallons	10^7/L	<10 PFU/L	>99.99	Passed
20 gallons	10^7/L	<10 PFU/L	>99.99	Passed
25 gallons	10^7/L	<10 PFU/L	>99.99	Passed
30 gallons	10^7/L	<10 PFU/L	>99.99	Passed
35 gallons	10^7/L	<10 PFU/L	>99.99	Passed
40 gallons	10^7/L	10 PFU/L	99.99	Passed
45 gallons	10^7/L	10 PFU/L	99.99	Passed
50 gallons	10^7/L	10 PFU/L	99.99	Passed

Table 6
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.20 to 7.80	6.5 to 8.5
Temperature	18.5 qC to 20.5 qC	20 r 5qC
TDS	250 to 350 mg/L	50 - 500 mg/L
Turbidity	2.5 to 4.5NTU	0.1 to 5 Nephelometric Turbidity Units
TOC	2.6 to 3.8.mg/L	0.1 to 5.0 mg/L

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Table 7
Giardia lamblia (Cyst)Test Results

Accumulated volume	Influent Water Concentration	Filtered Water Concentration	% Reduction	Criteria: Minimum % Reduction 99.99
Initial (1 gallon)	10^6/L	<10 oocysts/L	>99.9	Passed
5 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
10 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
15 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
20 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
25 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
30 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
35 gallons	10^6/L	<10 oocysts/L	>99.9	Passed
40 gallons	10^6/L	10 oocysts/L	99.9	Passed
45 gallons	10^6/L	10 oocysts/L	99.9	Passed
50 gallons	10^6/L	20 oocysts/L	99.9	Passed

Table 8
Influent Challenge Water Properties

Parameter	Influent Challenge Water	Target
pH	7.15 to 7.50	6.5 to 8.5
Temperature	18.0 qC to 20.5 qC	20 r 5qC
TDS	200 to 300 mg/L	50 - 500 mg/L
Turbidity	3.5 to 4.5NTU	0.1 to 5 Nephelometric Turbidity Units
TOC	3.0 to 4.5mg/L	0.1 to 5.0 mg/L

CONCLUSION:
The ProOne-G2.0 Filter meets the requirements for the Microbiological Reduction NSF Protocol P231 for 50 gallons. Passed.

Jaime A. Young

Jaime A. Young
Lab Director

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TEST RESULTS

FOR

ProOne Water Filters

1200 BENSTEIN ROAD

COMMERCE TWP. MICHIGAN, 48390

Filter Element ProOne® G2.0

NSF Standard 53 PFOAS

Chemical Reduction Tests Results

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NSF/ANSI Standard 53 PFOAS Reduction PT 200%:

Date: 7/16/2020

Product: Gravity Filter

Flow Rate: 10 gpd

Filter Capacity: 200 gallons

Cycle: N/A

Conditioning Procedure: Flush 1 gallon

Physical Description of Sample: Gravity Filter

Performance Indicator Device: No, test to 100% Capacity

Test Description: NSF/ANSI Standard 53 PFOAS Reduction Testing

Trade Designation/Model Number: ProOne G 2.0 7" gravity filter

Unit Volume: 0.3 L

Performance Standard: NSF/ANSI Standard 53- 2019

Pass/Fail Criteria (PFOA+PFOS Combined Maximum Product Water Concentration)**:** 0.07 µg/L

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PFOA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFOA (µg/L)	Effluent 1 PFOA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.49	0.02	95.92%
25%	50 gallons	0.49	0.01	97.96%
50%	100 gallons	0.49	0.01	97.96%
75%	150 gallons	0.49	0.01	97.96%
88%	175 gallons	0.49	<0.01	>97.96%
100%	200 gallons	0.49	<0.01	>97.96%

PFOA Reporting Limit: 0.01 µg/L

PFOS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFOS (µg/L)	Effluent 1 PFOS Concentration (µg/L)	% Reduction
10 UV	10 UV	0.96	<0.01	>98.96%
25%	50 gallons	0.96	<0.01	>98.96%
50%	100 gallons	0.96	<0.01	>98.96%
75%	150 gallons	0.96	<0.01	>98.96%
88%	175 gallons	0.96	<0.01	>98.96%
100%	200 gallons	0.96	<0.01	>98.96%

PFOS Reporting Limit: 0.01 µg/L

PFOA & PFOS Data Summary Filter 1

Sample Point	Accumulated Volume Effluent 1	Influent Total PFOA + PFOS Concentration (µg/L)	Effluent 1 Total PFOA + PFOS Concentration (µg/L)	Passing Criteria
10 UV	10 UV	1.45	0.02	Passed
25%	50 gallons	1.45	0.01	Passed
50%	100 gallons	1.45	0.01	Passed
75%	150 gallons	1.45	0.01	Passed
88%	175 gallons	1.45	<0.01	Passed
100%	200 gallons	1.45	<0.01	Passed

PFBS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFBS (µg/L)	Effluent 1 PFBS Concentration (µg/L)	% Reduction
10 UV	10 UV	0.1	<0.01	>90.00%
25%	50 gallons	0.1	<0.01	>90.00%
50%	100 gallons	0.1	<0.01	>90.00%
75%	150 gallons	0.1	<0.01	>90.00%
88%	175 gallons	0.1	0.01	90.00%
100%	200 gallons	0.1	<0.01	>90.00%

PFBS Reporting Limit: 0.01 µg/L

PFBA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFBA (µg/L)	Effluent 1 PFBA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.1	<0.01	>90.00%
25%	50 gallons	0.1	<0.01	>90.00%
50%	100 gallons	0.1	<0.01	>90.00%
75%	150 gallons	0.1	<0.01	>90.00%
88%	175 gallons	0.1	<0.01	>90.00%
100%	200 gallons	0.1	<0.01	>90.00%

PFBA Reporting Limit: 0.01 µg/L

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EPFB Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 EPFB (µg/L)	Effluent 1 EPFB Concentration (µg/L)	% Reduction
10 UV	10 UV	0.1	<0.01	>90.00%
25%	50 gallons	0.1	<0.01	>90.00%
50%	100 gallons	0.1	0.01	90.00%
75%	150 gallons	0.1	<0.01	>90.00%
88%	175 gallons	0.1	<0.01	>90.00%
100%	200 gallons	0.1	<0.01	>90.00%

EPFB Reporting Limit: 0.01 µg/L

PFNA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PFNA (µg/L)	Effluent 1 PFNA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.1	<0.01	>90.00%
25%	50 gallons	0.1	<0.01	>90.00%
50%	100 gallons	0.1	<0.01	>90.00%
75%	150 gallons	0.1	<0.01	>90.00%
88%	175 gallons	0.1	0.02	80.00%
100%	200 gallons	0.1	<0.01	>90.00%

PFNA Reporting Limit: 0.01 µg/L

PHHA Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 PHHA (µg/L)	Effluent 1 PHHA Concentration (µg/L)	% Reduction
10 UV	10 UV	0.09	<0.01	>90.00%
25%	50 gallons	0.09	<0.01	>90.00%
50%	100 gallons	0.09	<0.01	>90.00%
75%	150 gallons	0.09	<0.01	>90.00%
88%	175 gallons	0.09	0.01	90.00%
100%	200 gallons	0.09	<0.01	>90.00%

PHHA Reporting Limit: 0.01 µg/L

GenX Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 GenX (µg/L)	Effluent 1 GenX Concentration (µg/L)	% Reduction
10 UV	10 UV	0.1	0.02	80.00%
25%	50 gallons	0.1	<0.01	>90.00%
50%	100 gallons	0.1	0.03	70.00%
75%	150 gallons	0.1	0.04	60.00%
88%	175 gallons	0.1	<0.01	>90.00%
100%	200 gallons	0.1	<0.01	>90.00%

GenX Reporting Limit: 0.01 µg/L

NFBS Filter #1 Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 NFBS (µg/L)	Effluent 1 NFBS Concentration (µg/L)	% Reduction
10 UV	10 UV	0.1	0.01	90.00%
25%	50 gallons	0.1	<0.01	>90.00%
50%	100 gallons	0.1	0.01	90.00%
75%	150 gallons	0.1	0.02	80.00%
88%	175 gallons	0.1	<0.01	>90.00%
100%	200 gallons	0.1	<0.01	>90.00%

NFBS Reporting Limit: 0.01 µg/L

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Water Characteristics

Sample Point	pH (7.5±0.5)	Temperature (20±3°C)	Chloride (80-120) mg/L	Turbidity (<1 NTU)	Alkalinity (160-240) mg/L	Sulfate (160-240) mg/L
10 UV	7.1	20	92	0.3	188	165
50%	7.2	21	98	0.2	202	170
100%	7.1	20	105	0.2	169	160
150%	7.1	21	101	0.3	217	175
180%	7.1	21	99	0.3	209	180
200%	7.2	21	97	0.4	214	169
Average	**7.1**	**21**	**99**	**0.3**	**200**	**170**

Disclaimer: The test results are only related to the filter cartridges tested, in the condition received at the laboratory.

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PROONE® G2.0 MINERAL TEST REPORT

Report # 15-173-2 ProOne® G2.0 Filter

Report Date: 08/10/2015

While there is discussion in the scientific community as to what are "good" and "not so good" minerals as related to drinking water, some familiar minerals considered to be "good minerals" include calcium, magnesium and potassium, and "not so good" to include lead, arsenic, antimony, aluminum and barium.

Table 1
PROONE® G2.0 REDUCTION RESULTS

Test Parameter	Influent Water Concentration	Filter Element ProOne® G2.0 Results	% Reduction
Calcium	185 mg/L	35 mg/L	81.1
Magnesium	18.5 mg/L	19 mg/L	0.0
Potassium	40 mg/L	39 mg/L	2.5

Table 2
PROONE® G2.0 REDUCTION RESULTS

Drinking Water Contaminant Tested	Influent Water Concentration in µg/L	Filter Element ProOne® G2.0 Effluent Concentration in µg/L	% Reduction
Aluminum	220	4.3	98.0
Antimony	6.2	0.0	100.0
Arsenic (+3 and +5)	310	2.7	99.7
Barium	250	2.5	9.0
Lead	152	0.0	100.0

Jamie Young

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Lab Director

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