
Water-to-Go™
Water Filtration System

Testresultaten

De Water-to-Go waterfilters zijn grondig getest door onafhankelijke, internationaal erkende instituten in verschillende delen van de wereld, waaronder:

- The London School of Hygiene & Tropical Medicine (Verenigd Koninkrijk)
- BCS Laboratories (Verenigde Staten)
- Bangalore Test House (India)
- IMI (China)

Deze instituten hebben de Water-to-Go filters beoordeeld op basis van de strengste internationale testprotocollen voor microbiologische waterzuivering.

Een belangrijk referentiepunt in deze tests is de standaard van de Environmental Protection Agency (EPA) in de Verenigde Staten. De EPA-richtlijnen gelden wereldwijd als dé norm voor het testen van microbiologische waterfilters, en worden ook gehanteerd in landen waar geen eigen regelgeving bestaat. De EPA stelt de volgende minimale reductiewaarden vast voor waterfilters die worden geclassificeerd als microbiologische zuiveraars:

- 99,9999% (6 log10) verwijdering van bacteriën
- 99,99% (4 log10) verwijdering van virussen
- 99,9% (3 log10) verwijdering van protozoa en andere micro-organismen

De Water-to-Go filters zijn met succes getest volgens deze richtlijnen. In dit document vind je een overzicht van de officiële testresultaten. Zo kun jij met vertrouwen kiezen voor Water-to-Go.

LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE
(University of London)
Department of Infectious and Tropical Diseases
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Peter Donachie BSc
Principal Scientific Officer (Medical Microbiology)
Faculty of Infectious and Tropical Diseases

8 May 2013

REPORT ON MICROBIOLOGICAL TESTS CARRIED OUT ON THE BEHALF OF WATER-TO-GO LTD. ON TW0 WATER FILTERATION BOTTLES BY THE LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE.

Test Items

The bottles manufactured by Water-to-go Ltd.

The bottles were delivered to the laboratory new and unusedB**.** efore testing each bottle was examined for mechanical defect or leaks and was primed using deionised water according to the manufacturer's instructions.

Test organisms

Poliovirus type 1 (Sabin vaccine strain) at a concentration of 24.50×106 PFU (plaque forming units) per millilitre.
Escherichia coli ATCC 22952 at a concentration of 26.00×106 CFU (colony forming units) per millilitre.
Fluorescent beads. The size of the beads was chosen to mimic Cryptosporidium oocysts at a concentration of 10.85 ×103 beads per millilitre.

Test Water

Autoclaved Distilled Water.

Test procedure

1. Bottles were primed according to user instructions and then washed several times with deionised water before challenge.

2. 100ml of poliovirus suspension was added to 1500ml of challenge water and mixed thoroughly. The seeded test water was sucked through the bottle and collected in sterile containers for assay. For the bacteriological challenge 50ml of an overnight culture of Escherichia coli suspension was added to 1000ml of challenge water.

3. Prior to filtration, a sample of the seeded test water was taken and the number of virus particles and bacteria determined in parallel with the filtered samples.

Microbiological assay

1. For virus assay, 9ml volumes of water (filtered and unfiltered) were added to 1ml of ×10 cell culture medium and diluted 10-fold steps in single strength medium. Four replicates of each dilution were added to VERO cell monolayers and a plaque assay performed and incubated for 2 days before examination for plaque formation. The amount of virus in the filtered sample when compared to the unfiltered sample was measured and the log reduction calculated.

2. For bacteria, 1ml samples were assayed for Escherichia coli by spread plate and Miles & Misra techniques. The tests were performed in triplicate.

3. For fluorescent beads the water was filtered through filter paper membranes known to have pores smaller than the beads and the membrane viewed under an ultra violet microscope.

4. For the reduction of chlorine, 10ml water samples were treated with N,N,-diethyl-p-phenylenediamine which reacts which free chlorine and produces a red complex and the intensity of the colour was measured by eye compared to known standards using a Lovibond comparator.

5. Suitable controls, positive and negative were included in all assays.

Test results

Table 1- Summary of Assay results of all samples

bottle	Test organism	Inflowing (log10)	outflowing (log10)	% reduction (log10 reduction)
1	Poliovirus	2.48×105 PFU/ml (5.39)	156.8 PFU/ml (2.20)	99.982% (3.73)
2			45.60 PFU/ml (1.66)	99.937% (3.20)
1	***Escherichia coli***	2.60×107 CFU/ml (7.41)	2.10×102 CFU/ml (2.32)	99.9992% (5.09)
2			4.25×103 CFU/ml (3.63)	99.9837% (3.79)
1	Beads	1.09×104/ml (4.04)	≤168/ml (≤2.27)	≥99.982906% (≥3.77)
2			≤168/ml (≤2.27)	≥99.982906% (≥3.77)
1	Free Chlorine	60ppm	<0.4ppm	
2			<0.4ppm	

The reduced Chlorine reading was between 0 and 0.4ppm as 0.4ppm represented the lowest comparator disc.

Summary

Under the conditions of testing in the laboratory of the London School of Hygiene and Tropical Medicine as shown in this report, these results show that the Water-to-go Ltd bottle removed more than 99.9% of bacteria, viruses and ***Cryptosporidium oocyst*** from contaminated water.
There was also a significant or total reduction in free chlorine by the filter.

Signed on 8 thMay 2013

Peter Donachie BSc (Hons.)
Principal Scientific Officer (Medical Microbiology)
London School of Hygiene & Tropical Medicine

BIOLOGICAL CONSULTING SERVICES
OF NORTH FLORIDA, INC.

2021-05-27 Dave Shanks CWliaetnetr To Go
The Old Workshops, Stagenhoe Bottom Farm
Hitchin SG4 8JN, United Kingdom
+44 1582 841412
david@watertogo.eu
Client ID:Filter 1, Filter 2, Filter 3

BCS ID: 2104087, 2104088, 2104089

Project Name:W2G 04122021 Microbial Filtration Efficacy Testing

DearDave Shanks,

We have completed the filtration efficacy study on the submitted units as outlined below. The contaminant species, study conditions, and water parameters utilized were based on client's request and adaptation of the guidance documents and protocols listed below:
Validation of Water Purifier Microbiological Filtration Efficacy: Screening of performance as per client request; BCS SOP-F1 (ISO17025:2017 accredited)

Report Conclusion: Test Conducted successfully as per Client's Request

Following, you will find our report on the results of the study conducted on the referenced samples. Should you have any questions, please do not hesitate to contact me.

Sincerely,

George Lukasik, Ph.D.
Laboratory Director

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FL DOH E82924, ISO17025:2017L2422(ANAB),PADEP68-03950,EPAFL01147

Analysis:*R. terrigena Filtration Efficacy* Test Water:General Test Water

Analysis Method:Spread Plating (Standard Method 9215)

Test Point:Initial Efficacy **Test Point Conclusion: Test Notes***

Challenge Date:2021-04-21 Challenge Analysts:David Sekora M.S.

Initial Pres. (PSI):N/A Temp(C):24.1

pH:7.8 Turbidity (NTU):0.3 TOC (ppm):0.2 TDS(ppm): 165.2 Hardness(ppm): 129

Alkalinity(ppm): N/A Total Chlorine(ppm): 0.0 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 4.3E+05cfu/mL Ambient Temp(C):26.2

Analysis Date:2021-04-21 Analysts:David Sekora M.S.

Test Notes:Chlorine residual was not detected (Limit of detection is at 0.01 ppm).
*Units met the performance requirements set in method NSF P231 at the above test point.

BCS Sample ID 1:2104087 Client ID 1:Filter 1 Flow Rate:800mL/min

Eff Conc 1: <3.0E-01cfu/mL % Reduct 1: >99.99993 Log10 Reduct 1: >6.2

BCS Sample ID 2:2104088 Client ID 2:Filter 2 Flow Rate:800mL/min

Eff Conc 2: <3.0E-01cfu/mL % Reduct 2: >99.99993 Log10 Reduct 2: >6.2

BCS Sample ID 3:2104089 Client ID 3:Filter 3 Flow Rate:800mL/min

Eff Conc 3: <3.0E-01cfu/mL % Reduct 3: >99.99993 Log10 Reduct 3: >6.2

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Analysis:*MS-2 Virus Filtration Efficacy* Test Water:General Test Water

Analysis Method:Plaque Assay (BCS SOP V-10)

Test Point:Initial Efficacy **Test Point Conclusion: Test Notes***

Challenge Date:2021-04-21 Challenge Analysts:David Sekora M.S.

Initial Pres. (PSI):N/A Temp(C):24.1

pH:7.8 Turbidity (NTU):0.3 TOC (ppm):0.2 TDS(ppm): 165.2 Hardness(ppm): 129

Alkalinity(ppm): N/A Total Chlorine(ppm): 0.0 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 1.4E+05pfu/mL Ambient Temp(C):26.2

Analysis Date:2021-04-21 Analysts:David Sekora M.S.

Test Notes:Chlorine residual was not detected (Limit of detection is at 0.01 ppm).
*Units failed to meet the performance requirements set in method NSF P231 at the above test point.

BCS Sample ID 1:2104087 Client ID 1:Filter 1 Flow Rate:800mL/min

Eff Conc 1: 3.7E+01pfu/mL % Reduct 1: 99.97 Log10 Reduct 1: 3.6

BCS Sample ID 2:2104088 Client ID 2:Filter 2 Flow Rate:800mL/min

Eff Conc 2: 4.4E+01pfu/mL % Reduct 2: 99.97 Log10 Reduct 2: 3.5

BCS Sample ID 3:2104089 Client ID 3:Filter 3 Flow Rate:800mL/min

Eff Conc 3: 3.1E+01pfu/mL % Reduct 3: 99.98 Log10 Reduct 3: 3.7

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Analysis:*3.0um Microspheres Filtration Efficacy (Cyst)* Test Water:General Test Water

Analysis Method:Fluorescent Microscopic Enumeration (EPA 1623.1)

Test Point:Initial Efficacy **Test Point Conclusion: Test Notes***

Challenge Date:2021-04-21 Challenge Analysts:David Sekora M.S.

Initial Pres. (PSI):N/A Temp(C):24.1

pH:7.8 Turbidity (NTU):0.3 TOC (ppm):0.2 TDS(ppm): 165.2 Hardness(ppm): 129

Alkalinity(ppm): N/A Total Chlorine(ppm): 0.0 Polyphosphate (as ppm phosphorus): N/A

Influent Conc: 3.4E+04microspheres/mL Ambient Temp(C):26.2

Analysis Date:2021-04-21 Analysts:David Sekora M.S.

Test Notes:Chlorine residual was not detected (Limit of detection is at 0.01 ppm).
*Units met the performance requirements set in method NSF P231 at the above test point.

BCS Sample ID 1:2104087 Client ID 1:Filter 1 Flow Rate:800mL/min

Eff Conc 1: <6.7E-01microspheres/mL % Reduct 1: >99.998 Log10 Reduct 1: >4.7

BCS Sample ID 2:2104088 Client ID 2:Filter 2 Flow Rate:800mL/min

Eff Conc 2: <6.7E-01microspheres/mL % Reduct 2: >99.998 Log10 Reduct 2: >4.7

BCS Sample ID 3:2104089 Client ID 3:Filter 3 Flow Rate:800mL/min

Eff Conc 3: <6.7E-01microspheres/mL % Reduct 3: >99.998 Log10 Reduct 3: >4.7

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Project:W2G 04122021 Microbial Filtration Efficacy Testing

Date Received:2021-04-12 12:00 Test Start Date:2021-04-21 Test End Date:2021-04-29

System Type:Mouth Drawn Purifier Unit Est. Capacity:N/A

Performance Indicating Device:No Batch Volume:N/A Batch, number per day:N/A

Test Cycle (min): 1 Cycle On/Off (%):50/50 Restricted Flow Rate:Yes

Test Duration (hr/day): Θ Test Conditioning: Flush with 1 liter of test water

Report Notes:

The purifier units were received from the study sponsor and each was assigned the referenced BCS identifiers. The test set-up was based on methodology described in NSF/ANSI 53 Annex 3 : test method for evaluating mouth drawn water treatment units. The flow rate was maintained at 800 +/-80 mL/min up to a maximum of 20.5 kPa (3 psig) average vacuum. The vacuum was measured continuously and did not exceed -3.0 PSI. The units were conditioned by aspirating 1-liter of General Test Water (GTW (NSF P231); dechlorinated municipal water) through each filter unit. Following the conditioning step, each of the units were tested for initial bacteria, virus, and cyst filtration efficacy as per laboratory protocol. Briefly, aliquots of the challenge species were added to GTW and the water was homogenized. 1-liter of challenge water was aspirated by pump through each of the filter units at the indicated flow rates. Filters' influent and effluent samples were collected in their entirety for immediate analysis. Study & collected influent and effluent samples' analysis was conducted as per laboratory's accredited ISO17025:2017 methodology: bacteria as per SM 9215 (APHA 2012), virus as per BCS SOP V-10 (EPA1602), microspheres as per EPA 1623.1, turbidity was determined as per SM2130B, pH as per SM4500HB, TDS as per SM2540, chlorine as per SM4500-Cl G, Total Organic Carbon (TOC) as per SM5310C, & hardness as per SM2340C (if needed). All analysis was conducted using calibrated and/or validated Instruments to traceable standards (NIST). All method QC was within method acceptance limit. No general environmental conditions are specified in the standard or have been identified that could affect the test results or measurements. END OF REPORT NOTES.

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*I certify that I have examined and I am familiar with the information submitted herein. The results pertain only to the sample(s) tested, associated identifier #(s), and condition at receipt. Based on my inquiry of the individuals responsible for the analysis, I believe the data to be true, accurate, and complete. Unit descriptions and names were obtained from the submitted documents. The analysis was authorized and commissioned by the client or client's representative. The resulting data are representative of the analysis conducted on the collected samples and it's/their condition at the time of analysis. The data provided is strictly representative of the study conducted under laboratory conditions using the material/samples/articles provided by the client (or client's representative) and it's (their) condition at the time of test following receipt. The data obtained may not be representative or indicative of a real-life process and/or application. The sample(s) were analyzed in accordance with the appropriate method, however due to the inherent limitations of methods, microorganisms may avoid detection. BCS Laboratories offers no express or implied warranties concerning the quality, safety, and/or purity of any sample, batch, source, or the process they are derived from. Quality assurance controls were performed as outlined in the method and as per Good Laboratory Practices. Analyses were performed in accordance with laboratory practices and procedures set-forth by ISO 17025-2017 and NELAP/TNI accreditation standards unless otherwise noted. BCS makes no express or implied warranty regarding the ownership, merchantability, safety or fitness for a particular purpose of any such property or product.

Signature of Laboratory Director/Authorized Rep.  Date: _2_0__2_1_-0_5_-_2_7_____

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*Balance ID: BL-10 Description:Sartorius Practum Precision Balance

Range of Function:0-3100 g Instrument Reporting Limit:0.01g

Last Servive Date: 2020-08-04 Service Due Date: 2021-08-31

Service Type: Manufacturer Cal NIST Validation Instrument: Reference Std/Instrument

*pH MeterID:PH-09 Description:Orion Versa Star Pro Meter w/pH and Conductivity Modules

Range of Function:0.001-12.000 Instrument Reporting Limit:0.001

Last Service Date: 2020-09-14 Service Due Date: 2021-09-30

Service Type: Validation to NIST NIST Validation Instrument: NIST Standard Solution

*Conductivity Meter ID: CM-08 Description:Orion Versa Star Pro Meter w/pH and Conductivity Modules

Range of Function:0.01-2400 ppm Instrument Reporting Limit:0.01ppm

Last Service Date: 2020-09-14 Service Due Date: 2021-09-30

Service Type: Validation to NIST NIST Validation Instrument: NIST Standard Soutions

*Alkalinity Meter ID: N/A Description:

Range of Function: Instrument Reporting Limit:

Last Service Date: Service Due Date:

Service Type: NIST Validation Instrument:

*Hardness Meter ID: HARD-02 Description:Hach Total Hardness Test Kit 10-4,000 mg/L

Range of Function:10-4000mg/L Instrument Reporting Limit:10 mg/L

Last Service Date: 2020-05-21 Service Due Date: 2021-05-21

Service Type: Validation to NIST NIST Validation Instrument: NIST Standard solutions

*Turbidity Meter ID: TM-05 Description:Hach Turbidimeter

Range of Function:0.00-999NTU Instrument Reporting Limit:0.01NTU

Last Service Date2020-09-24 Service Due Date: 2021-09-30

Service Type: Manufacturer OEM NIST Validation Instrument: NIST Standard Solutions

*Spectrophotometer ID: SPEC-02 Description:Hach DR 3900 Spectrophotometer Colorimeter

Range of Function:320-1000nm Instrument Reporting Limit:0.01nm

Last Service Date: 2021-01-12 Service Due Date: 2022-01-12

Service Type: Manufacturer service NIST Validation Instrument: NIST Standard Solutions

Incubator ID: I-20 Description:Thermo Fisher Forma 29 cu. ft. Reach-In Incubator

Range of Function:10-65C Instrument Reporting Limit:0.1C

Last Service Date: 2020-09-14 Service Due Date: 2021-09-30

Service Type: Annual Service NIST Validation Instrument: Reference Std./Instrument

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**Flow Meter ID 1:N/A | Description:

Range of Function: | Instrument Reporting Limit:

Last Service Date: | Service Due Date:

Service Type: | NIST Validation Instrument:

**Flow Meter ID 2:N/A | Description:

Range of Function: | Instrument Reporting Limit:

Last Service Date: | Service Due Date:

Service Type: | NIST Validation Instrument:

**Flow Meter ID 3:N/A | Description:

Range of Function: | Instrument Reporting Limit:

Last Service Date: | Service Due Date:

Service Type: | NIST Validation Instrument:

Microscope ID: MIC-03 | Description:Olympus BH-2 Microscope

Range of Function:40X-400X Magnification | Instrument Reporting Limit:0.5 micron

Last Service Date: 2020-08-04 | Service Due Date: 2021-08-04

Service Type: Annual Service | NIST Validation Instrument: NIST Micrometer

Refrigerator ID: FR-11 | Description:Migali B Series Glass Door Refrigerator

Range of Function:1-8C | Instrument Reporting Limit:N/A

Last Service Date: 2020-09-14 | Service Due Date: 2021-09-30

Service Type: Annual Service | NIST Validation Instrument: Reference Std./Instrument

Centrifuge ID: C-12 | Description: Eppendorf centrifuge w/ cell culture package

Range of Function:0-4400 RPM | Instrument Reporting Limit:1 RPM

Last Service Date: 2020-09-14 | Service Due Date: 2021-09-30

Service Type: Annual Service | NIST Validation Instrument: TA-01

Pressure Source Pump ID: WƵmĐTcϬ | Description: DĂƐłĞƌĨůĞdž >^ WƵmĐ Θ WƵmĐ ƌi|Ğ

Range of Function: E | Instrument Reporting Limit: E

Last Service Date: E | Service Due Date: E

Service Type: E | NIST Validation Instrument: E

PressureMeterID: PM-35 | Description:Sper pressure transducer (2 bar)

Range of Function:0.01-29PSI | Instrument Reporting Limit:0.01PSI

Last Service Date: 2021-02-18 | Service Due Date: 2022-02-18

Service Type: Validation to NIST | NIST Validation Instrument: PM-60 NIST

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Cert. Pressure Meter ID: PM-60 NISd Description: Pressure Transducer 29 PSI

Range of Function: 0.01-29 psi
Instrument Reporting Limit:0.01 PSI
Last Service Date: 2020-11-11
Service Due Date: 2021-11-11
Service Type: Manufacturer Cal.
NIST Validation Instrument: Reference Std./Instrument

TOC Analyzer ID:TOC-01 Description: GE M5310C Lab TOC Analyzer

Range of Function:40ppb-50ppm
Instrument Reporting Limit:0.01ppb
Last Service Date: 2020-05-13
Service Due Date: 2021-05-13
Service Type: Manufacuter Cal.
NIST Validation Instrument: NIST Standard Solutions

Spectrograph ID:N/A Description:

Range of Function:
Instrument Reporting Limit:
Last Service Date:
Service Due Date:
Service Type:
NIST Validation Instrument:

Thermometer ID:IR-11 NIST Description:VWR Traceable Infrared Thermometer Gun

Range of Function:0-300
Instrument Reporting Limit:N/A
Last Service Date: 2020-09-18
Service Due Date: 2021-09-18
Service Type: Annual calibration
NIST Validation Instrument: N/A

Particle Counter ID:N/A Description:

Range of Function:
Instrument Reporting Limit:
Last Service Date:
Service Due Date:
Service Type:
NIST Validation Instrument:

Timer ID:T-37 Description:Jumbo VWR Traceable Lab-Top Timer

NIST Expiration Date: 2022-02-19

*Validated at each day of use using NIST traceable standards. Other major equipment validated quarterly.
**Validated at each use using traceable volume and time measurements.

All above equipment with completed fields wereused fromTest StartDateto Test EndDateunless otherwisenoted. Service Date indicates PM or calibration by accredited service provider. Service Dates reported for latest period. If Last Service Date occurs during study duration, please contact us for the previous period's validation information.

END OF REPORT

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TEST CERTIFICATE

Mr. Jitendra Pratap Singh
Old Airport Road,
BANGALORE – 560 008

Report No	: ED/2012/11/0466
Date of report	: 22.11.2012
Reference No	: RFA
Date	: 13.11.2012
Date of receipt	: 15.11.2012
Job Order No	: ED/2012/11/0466

Sample Particulars: One sample of Treated Water was received

TESTS	RESULTS	MAXIMUM ACCEPTABLE LIMITS AS PER IS: 10500 –1991 (Amd.3)	MAXIMUM PERMISSIBLE LIMITS IN THE ABSENCE OF ALTERNATE SOURCE AS PER IS: 10500–1991 (Amd.3)	PROTOCOL
1. Colour, True colour units	< 2	5	25	IS: 3025 (P 4)
2. Odour	Unobjectionable	Unobjectionable	-	IS: 3025 (P 5)
3. Turbidity, NTU	1.8	5	10	IS: 3025 (P 10)
4. pH	7.62	6.50 to 8.50	No relaxation	IS: 3025 (P 11)
5. Chlorides, as Cl, mg/L	65.9	250	1000	IS: 3025 (P 32)
6. Total Hardness as $CaCO_3$, mg/L	279.4	300	600	IS: 3025 (P 21)
7. Calcium, as Ca, mg/L	68.4	75	200	IS: 3025 (P 40)
8. Magnesium, as Mg, mg/L	26.4	30	100	IS: 3025 (P 46)
9. Total Dissolved solids, mg/L	546.0	500	2000	IS: 3025 (P 16)
10. Sulphates, as SO_4, mg/L	43.4	200	400	IS: 3025 (P 24)
11. Copper, as Cu, mg/L	< 0.05	0.05	1.5	IS: 3025 (P 42)
12. Iron, as Fe, mg/L	0.08	0.30	1.0	IS: 3025 (P 53)
13. Manganese, as Mn, mg/L	< 0.1	0.1	0.3	IS: 3025 (P 59)
14. Nitrates, as NO_3, mg/L	14.9	45	No relaxation	IS: 3025 (P 34)
15. Fluorides, as F, mg/L	0.30	1.0	1.5	IS: 3025 (P 60)
16. Phenolic Compounds, as C_6H_5OH, mg/L	Absent	0.001	0.002	IS: 3025 (P 43)
17. Mercury, as Hg, mg/L	< 0.001	0.001	No relaxation	IS: 3025 (P 48)
18. Cadmium, as Cd, mg/L	< 0.01	0.01	No relaxation	IS: 3025 (P 41)
19. Selenium, as Se, mg/L	< 0.01	0.01	No relaxation	IS: 3025 (P 56)
20. Arsenic, as As, mg/L	0.065	0.01	No relaxation	IS: 3025 (P 37)
21. Cyanide, as CN, mg/L	Absent	0.05	No relaxation	APHA
22. Lead, as Pb, mg/L	< 0.01	0.05	No relaxation	IS: 3025 (P 47)
23. Zinc, as Zn, mg/L	0.01	5	15	IS: 3025 (P 49)
24. Anionic Detergents as MBAS, mg/L	< 0.2	0.20	1.0	Annex K of IS:13428
25. Chromium, as Cr^{6+}, mg/L	< 0.01	0.05	No relaxation	IS: 3025 (P 52)
26. Residual Free Chlorine, mg/L	< 0.05	Min 0.20	-	IS: 3025 (P 26)
27. Alkalinity, as $CaCO_3$, mg/L	295.4	200	600	IS: 3025 (P 23)
28. Aluminium, as Al, mg/L	< 0.01	0.03	0.2	IS: 3025 (P 55)
29. Boron, as B, mg/L	< 0.1	1.00	5.0	APHA

ANALYST

AUTHORISED SIGNATORY

Format No. BTH-QF-106

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e-mail: testhouse@satyam.net.in website: www.bthindia.com

TEST CERTIFICATE

Mr. Jitendra Pratap Singh
Old Airport Road,
BANGALORE – 560 008

Report No	: ED/2012/11/0466
Date of report	: 22.11.2012
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Date of receipt	: 15.11.2012
Job Order No	: ED/2012/11/0466

Sample Particulars: One sample of Treated Water was received.

TESTS	RESULTS	ACCEPTABLE LIMITS AS PER IS: 10500 - 1991	ROTOCOL
Description	Colourless and clear transparent liquid filled in a PET bottle.		
MICROBIOLOGICAL TESTS :			
30. Coliform Organisms /100 ml	Less than 1	Less than 1	IS:1622-1981
31. E. coli Bacteria/100ml	Absent	Absent	IS:1622-1981

Remarks : **The sample conforms to IS:10500-1991 for drinking water with respect to Chemical & Microbiological Requirements.**

ANALYST

AUTHORISED SIGNATORY

NOTE :

BANGALORE TEST HOUSE
65, 20th Main, Marenahalli, Vijayanagar, Bangalore - 560 040
Ph : 23386415, 23151065, Fax: 080-23385979
e-mail: testhouse@satyam.net.in website: www.bthindia.com

TEST CERTIFICATE

Mr. Jitendra Pratap Singh
Old Airport Road,
BANGALORE – 560 008

Report No	: ED/2012/11/0466
Date of report	: 22.11.2012
Reference No	: RFA
Date	: 13.11.2012
Date of receipt	: 15.11.2012
Job Order No	: ED/2012/11/0466

Sample Particulars: One sample of Treated Water was received.

PESTICIDE RESIDUES :

Tests	Results mg/L	Test Method	Method Detection mg/L
32. o,p- DDT	BDL	USEPA 508	0.000025
33. Alpha HCH	0.1 µg/L	USEPA 508	0.000025
34. Endosulfan sulphate	BDL	USEPA 508	0.000025
35. Chlorpyrifos	BDL	USEPA 525.2	0.000025

BDL : Below Detection Level

ANALYST

AUTHORISED SIGNATORY

上海出入境检验检疫局
工业品与原材料检测技术中心

正本
ORIGINAL

TECHNICAL CENTER FOR INDUSTRIAL PRODUCT AND RAW MATERIAL INSPECTION AND TESTING OF SHANGHAI ENTRY-EXIT INSPECTION AND QUARANTINE BUREAU

上海民生路1208号 1208 MINSHENG ROAD SHANGHAI 200135

TEL:+86 21 68549152 FAX:+86 21 68549[illegible] E-mail:[illegible]@shciq.gov.cn

检测/鉴定报告
Test Report

报验号： 91660242
Application No.:91660242
日 期：2016年11月1日
Date: Nov. 1st, 2016

申 请 人： 上海朗运供应链管理有限公司
Applicant: SHANGHAI LONGWIN SUPPLY CHAIN MANAGEMENT CO., LTD

申报品名： 滤水杯 75CL (滤芯)
Sample Name: 75CL BOTTLE (Filter Cartridge)

申请人送样数量：3 个
Sample Amount Sent by Applicant: 3 units

检验依据:
Test Standards:

测定项目 Test Items	检验依据 Test Standards
色 Chrominance 浑浊度 Opacity 臭和味 Odor and Smell 肉眼可见物 Visible Residue	GB/T 5750.4-2006 生活饮用水标准检验方法-感官性状和物理指标 Standard examination methods for drinking water-Organoleptic and physician parameters
耗氧量 Oxygen Consumption 挥发性酚 Volatile Phenol	GB/T 5750.7-2006 生活饮用水标准检验方法-有机物综合指标 Standard examination methods for drinking water-Aggregate organic parameters
铅 Lead 镉 Cadmium 汞 Mercury 铬（六价） Hexavalent Chromium 砷 Arsenic	GB/T 5750.6-2006 生活饮用水标准检验方法-金属指标 Standard examination methods for drinking water-Metal parameters
细菌总数 Total Number of Colony 总大肠菌群 Total Coliform	GB/T 5750.12-2006 生活饮用水标准检验方法-微生物指标 Standard examination methods for drinking water-Microbiological parameters

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报验号： 91660242
Application No.:91660242
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检验结果：
Test Results:

测定项目 Test Items	单位 Unit	对照水 Control Water	浸泡水 Soaked Water 样品 1 Sample 1	浸泡水 Soaked Water 样品 2 Sample 2	卫生规范要求 Hygienic Requirements	判定 Conclusion
色 Chrominance	度 Degree	<5	<5	<5	增加量 Increase≤5	合格/Pass
浑浊度 Opacity	度 NTU	<0.5	<0.5	<0.5	增加量 Increase≤0.5	合格/Pass
臭和味 Odor and Smell	-	无臭味，无异味 No odor and smell	无臭味，无异味 No odor and smell	无臭味，无异味 No odor and smell	无异臭、异味 No Odor and Smell	合格/Pass
肉眼可见物 Visible Residue	-	无/None	无/None	无/None	无 None	合格/Pass
耗氧量 Oxygen Consumption	mg/L	0.30	0.03	0.03	增加量 Increase≤2	合格/Pass
挥发性酚 Volatile Phenol	mg/L	<0.002	<0.002	<0.002	增加量 Increase≤0.001	合格/Pass
铅 Lead	mg/L	未检出 Not Detected (检出限 DL：0.00007)	未检出 Not Detected (检出限 DL：0.00007)	未检出 Not Detected (检出限 DL：0.00007)	增加量 Increase≤0.0005	合格/Pass
镉 Cadmium	mg/L	未检出 Not Detected (检出限 DL：0.00006)	未检出 Not Detected (检出限 DL：0.00006)	未检出 Not Detected (检出限 DL：0.00006)	增加量 Increase≤0.0002	合格/Pass
汞 Mercury	mg/L	0.0002	0.0001	0.0001	增加量 Increase≤0.005	合格/Pass
铬（六价） Hexavalent Chromium	mg/L	未检出 Not Detected (检出限 DL：0.00009)	未检出 Not Detected (检出限 DL：0.00009)	未检出 Not Detected (检出限 DL：0.00009)	增加量 Increase≤0.005	合格/Pass
砷 Arsenic	mg/L	未检出 Not Detected (检出限 DL：0.00009)	未检出 Not Detected (检出限 DL：0.00009)	未检出 Not Detected (检出限 DL：0.00009)	增加量 Increase≤0.002	合格/Pass
细菌总数 Total Number of Colony	CFU/mL	<1	<1	<1	≤100	合格/Pass
总大肠菌群 Total Coliform	MPN/100mL	未检出 Not Detected	未检出 Not Detected	未检出 Not Detected	不得检出 Not detected	合格/Pass

评定：送检样品符合《生活饮用水水质处理器卫生安全与功能评价规范——一般水质处理器》（2001）的卫生安全试验要求。
Conclusion: The quality of samples complies with the hygienic safety requirements of "Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water —— General Devices"(2001)

Remarks:
1.报告附样品照片
1.A picture of sample is attached to this report.
2.检验结果仅对来样负责。未经检验机构同意，委托人不得擅自使用检验结果进行不当宣传。
2.The results above refer only to the sample(s) received. This report should not be used for publicity, except in full, without prior written permission of the inspection body.

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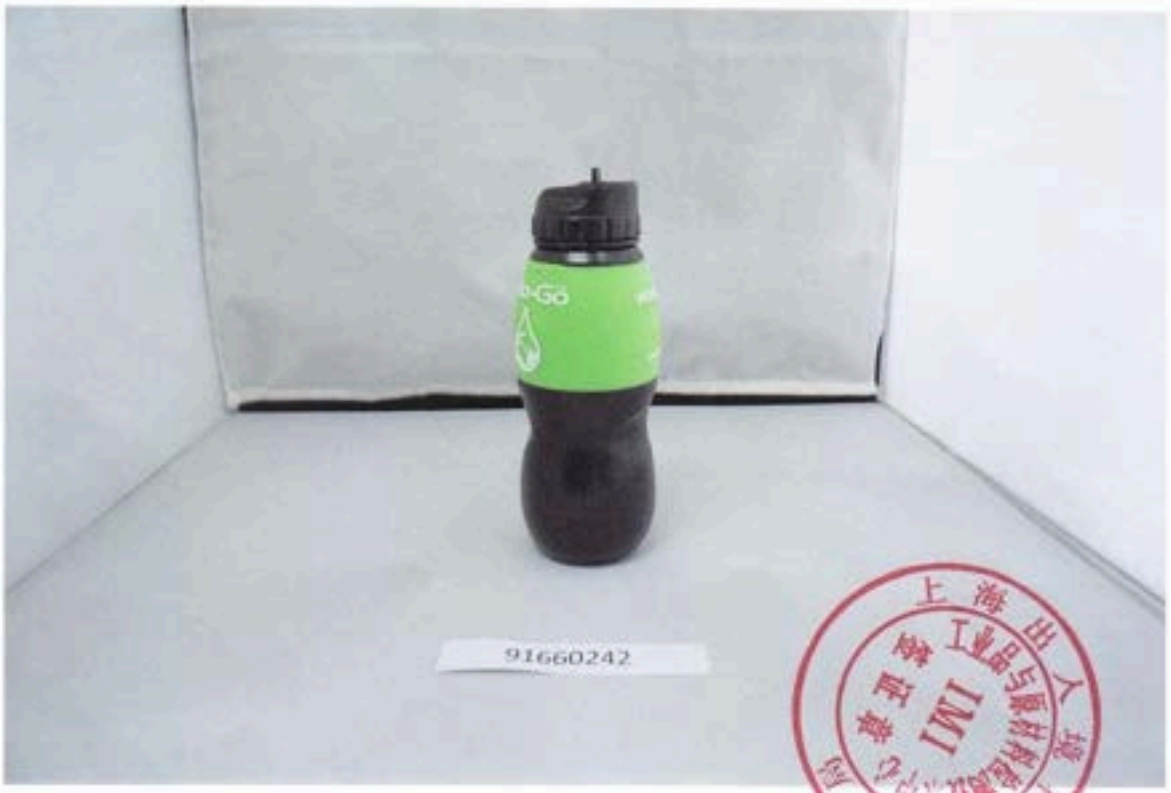
主任检验员：
Chief Inspector:


91660242

上海出入境检验检疫局
工业品与原材料检测技术中心

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TECHNICAL CENTER FOR INDUSTRIAL PRODUCT AND RAW MATERIAL INSPECTION AND TESTING OF SHANGHAI ENTRY-EXIT INSPECTION AND QUARANTINE BUREAU

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检测/鉴定报告
Test Report

报验号: 91660242
Application No.:91660242
日 期: 2016 年 11 月 1 日
Date: Nov. 1st, 2016

申 请 人: 上海朗运供应链管理有限公司
Applicant: SHANGHAI LONGWIN SUPPLY CHAIN MANAGEMENT CO., LTD

申报品名: 滤水杯 75CL (滤芯)
Sample Name: 75CL BOTTLE (Filter Cartridge)

申请人送样数量: 3 个
Sample Amount Sent by Applicant: 3 units

检验依据:
Test Standards:

测定项目 Test Items	检验依据 Test Standards
色 Chrominance 浑浊度 Opacity 臭和味 Odor and Smell 肉眼可见物 Visible Residue	GB/T 5750.4-2006 生活饮用水标准检验方法-感官性状和物理指标 Standard examination methods for drinking water-Organoleptic and physician parameters
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细菌总数 Total Number of Colony 总大肠菌群 Total Coliform	GB/T 5750.12-2006 生活饮用水标准检验方法-微生物指标 Standard examination methods for drinking water-Microbiological parameters

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To be continued

1，本检测/鉴定如系委托人自送样品的，检验机构仅对样品负责，不承担其它连带责任。
2，我们已尽力所知和最大能力实施上述检验，不能因我们签发本报告而免除卖方或其他方面根据合同和法律所承担的产品质量责任和其他责任。

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报验号： 91660242
Application No.:91660242
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检验结果:
Test Results:

测定项目 Test Items	单位 Unit	对照水 Control Water	浸泡水 Soaked Water 样品 1 Sample 1	浸泡水 Soaked Water 样品 2 Sample 2	卫生规范要求 Hygienic Requirements	判定 Conclusion
色 Chrominance	度 Degree	<5	<5	<5	增加量/Increase≤5	合格/Pass
浑浊度 Opacity	度 NTU	<0.5	<0.5	<0.5	增加量/Increase≤0.5	合格/Pass
臭和味 Odor and Smell	-	无臭味，无异味 No odor and smell	无臭味，无异味 No odor and smell	无臭味，无异味 No odor and smell	无异臭、异味 No Odor and Smell	合格/Pass
肉眼可见物 Visible Residue	-	无/None	无/None	无/None	无/None	合格/Pass
耗氧量 Oxygen Consumption	mg/L	0.30	0.03	0.03	增加量/Increase≤2	合格/Pass
挥发性酚 Volatile Phenol	mg/L	<0.002	<0.002	<0.002	增加量/Increase≤0.001	合格/Pass
铅 Lead	mg/L	未检出/Not Detected (检出限/DL：0.00005)	未检出/Not Detected (检出限/DL：0.00005)	未检出/Not Detected (检出限/DL：0.00005)	增加量/Increase≤0.0005	合格/Pass
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细菌总数 Total Number of Colony	CFU/mL	<1	<1	<1	≤100	合格/Pass
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主任检验员：
Chief Inspector: