# LΛRQ

### **LARQ Bottle Filter Performance Data**

LARQ Bottle Filter Essential LARQ Bottle Filter Advanced

# Performance Summary

Our LARQ Bottle Filters are independently tested to NSF/ANSI 42, 53 & 40I standards to be effective against a wide range of pollutants.

	LARQ Bottle Filtered		
Contaminants Filtered	Essential Filter Initial filter life	Advanced Filter Initial filter life	
Lead pH=6.5 (NSF / ANSI 53)	N/A	98.9%	
Lead pH=8.5 (NSF / ANSI 53)	N/A	>99.9%	
Chlorine (NSF / ANSI 42)	>98.9%	99.5%	
HAA5 - Monochloroacetic acid (NSF / ANSI 53)	N/A	99.8%	
HAA5 - Monobromoacetic acid (NSF / ANSI 53)	N/A	99.8%	
HAA5 - Dichloroacetic acid (NSF / ANSI 53)	N/A	99.8%	
HAA5 - Trichloroacetic acid (NSF / ANSI 53)	N/A	99.7%	
HAA5 - Bromochloroacetic acid (NSF / ANSI 53)	N/A	99.8%	
PFOA (NSF / ANSI 53)	>98.46%	97.0%	
PFOS (NSF / ANSI 53)	>98.33%	98.9%	
Atenolol (NSF / ANSI 40I)	N/A	99.5%	
DEET (NSF / ANSI 40I)	N/A	99.5%	
Meprobamate (NSF / ANSI 401)	N/A	99.7%	
Linuron (NSF / ANSI 40I)	N/A	99.4%	
Carbamazepine (NSF / ANSI 40I)	N/A	99.2%	
Metolachlor (NSF / ANSI 40I)	N/A	99.3%	
Trimethoprim (NSF / ANSI 40I)	N/A	99.9%	
TCEP (NSF / ANSI 40I)	N/A	99.8%	
TCPP (NSF / ANSI 40I)	N/A	99.7%	
Phenytoin (NSF / ANSI 40I)	N/A	99.3%	
Estrone (NSF / ANSI 40I)	N/A	99.4%	
Ibuprofen (NSF / ANSI 40I)	N/A	97.9%	
Bisphenol A (NSF / ANSI 40I)	N/A	99.5%	
Naproxen (NSF / ANSI 40I)	N/A	99.5%	
Nonylphenol (NSF / ANSI 40I)	N/A	99.3%	
		10.	



Third-party Lab Reports

LARQ Bottle Filter

Advanced



Client: LARQ, Inc., 950 Tower Lane, STE 2100, Foster City, CA 94404

Test Number: No. SZ20213468

**Study:** Efficacy of LARQ Bottle Filter against Lead (pH6.5)

Date Received: Sep 22, 2021 Date Analyzed: Oct 18, 2021

### Certificate of Analysis

### **Background:**

The objective of this experiment was to test the efficacy of LARQ's Bottle Filter at removing lead based on NSF/ANSI53-2019 (Drinking Water Treatment Units - Health Effects) and GB/T 5750-2006 (Standard examination methods for drinking water) testing guidelines. LARQ provided 2 Bottle Filters for testing. For this study, the lead concentration was  $0.15 \text{mg/L} \pm 10\%$ . The challenge water was passed through the Bottle Filter at a rate of 0.70-0.75 L/min. Each sample was taken at 0%, 20%, 40%, 60%, 80%, and 100% of the estimated filter life, ending at a net total of 250 liters of water filtered through.

### Materials and methods:

Name of Sample	LARQ Bottle Filter	· Source of Sample	Delivery		
Applicant	LARQ, Inc.	Client	LARQ, Inc.		
Producing Company	QJL NEW NATERIAL CO. LTD	Trademark	LARQ		
Date and Batch Number of Production	20210821	Character of Sample	Solid filter		
Quantity of Sample	2	Type and specification	BFRF050A		
Items of Analysis	Efficacy of LARQ Bottle Filter Against	Lead (pH=6.5)			
Testing standard	NSF/ANSI53-2019 (Drinking Water Treatment Units - Health Effects) and GB/T 5750-2006 (Standard examination methods for drinking water)				
Remarks	The test plan is as follows: 1. The challenge water was adjusted to pH 6.5 with the lead concentration at 0.15 mg/L $\pm 10\%$ .				
	2. Sampling test at 0%, 20%, 40%, 60%, 80%, and 100% of the rated filter life, The testflow rate was 0.7-0.75 L/min, and ending at a net total of 250 L of water filtered through.				

### **Results:**

Before filtration		After filtration (mg/L)		Removal rate (%)	
Water yield (L) (mg/L)	(mg/L)	Sample 1	Sample 2	Sample 1	Sample 2
0	0.141	0.00154	0.00255	98.9	98.2
50	0.137	0.00159	0.00250	98.8	98.2
100	0.140	0.00114	0.00167	99.2	98.8
150	0.144	0.00130	0.00195	99.1	98.6
200	0.142	0.00142	0.00204	99.0	98.6
250	0.142	0.00152	0.00241	98.9	98.3



Client: LARQ, Inc., 950 Tower Lane, STE 2100, Foster City, CA 94404

Test Number: No. SZ20213469

Study: Efficacy of LARQ Bottle Filter against Lead (pH8.5)

Date Received: Sep 22, 2021 Date Analyzed: Oct 11, 2021

**Certificate of Analysis** 

### **Background:**

The objective of this experiment was to test the efficacy of LARQ's Bottle Filter at removing lead based on NSF/ANSI53-2019 (Drinking Water Treatment Units - Health Effects) and GB/T 5750-2006 (Standard examination methods for drinking water) testing guidelines. LARQ provided 2 Bottle Filters for testing. For this study, the lead concentration was  $0.15 \text{mg/L} \pm 10\%$ . The challenge water was passed through the Bottle Filter at a rate of 0.70-0.75 L/min. Each sample was taken at 0%, 20%, 40%, 60%, 80%, and 100% of the estimated filter life, ending at a net total of 250 liters of water filtered through.

### Materials and methods:

Name of Sample	LARQ Bottle Filter	· Source of Sample	Delivery		
Applicant	LARQ, Inc.	Client	LARQ, Inc.		
Producing Company	QJL NEW NATERIAL CO. LTD	Trademark	LARQ		
Date and Batch Number of Production	20210821	Character of Sample	Solid filter		
Quantity of Sample	2	Type and specification	BFRF050A		
Items of Analysis	Efficacy of LARQ Bottle Filter Against	Lead (pH=8.5)			
Testing standard	NSF/ANSI53-2019 (Drinking Water Treatment Units - Health Effects) and GB/T 5750-2006 (Standard examination methods for drinking water)				
Remarks	The test plan is as follows:  1. The challenge water was adjusted to pH 8.5 with the lead concentration at 0.15 mg/L±10%.				
	2. Sampling test at 0%, 20%, 40%, 60%, 80%, and 100% of the rated filter life, The test flow rate was 0.7-0.75 L/min, and ending at a net total of 250 L of water filtered through.				

### **Results:**

Before filtration Water yield (L) (mg/L)		After filtration (mg/L)		Removal rate (%)	
	(mg/L)	Sample 1	Sample 2	Sample 1	Sample 2
0	0.141	0.00164	< 0.00007	98.8	>99.9
50	0.150	0.00181	0.00043	98.8	99.7
100	0.152	0.00196	0.00058	98.7	99.6
150	0.147	0.00307	0.00039	97.9	99.7
200	0.143	0.00286	<0.00007	98.0	>99.9
250	0.144	0.00218	0.00009	98.5	99.9





Client: LARQ, Inc., 950 Tower Lane, STE 2100, Foster City, CA 94404

Test Number: No. SZ20213470

Study: Efficacy of LARQ Bottle Filter against Chlorine

Date Received: Sep 22, 2021

Date Analyzed: Sep 23, 2021

### Certificate of Analysis

### **Background:**

The objective of this experiment was to test the efficacy of LARQ's Bottle Filter at removing chlorine based on NSF/ANSI42-2015 (Drinking Water Treatment Units – Aesthetic Effects) and GB/T 5750-2006 (Standard examination methods for drinking water) testing guidelines. LARQ provided 2 Bottle Filters for testing. For this study, the chlorine concentration was  $2.0 \text{ mg/L} \pm 10\%$ . The challenge water was passed through the Bottle Filter at a rate of 0.70-0.75 L/min. Each sample was taken at 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, and 100% of the estimated filter life, ending at a net total of 250 liters of water filtered through.

#### Materials and methods:

Name of Sample	LARQ Bottle Filter	· Source of Sample	Delivery		
Applicant	LARQ, Inc.	Client	LARQ, Inc.		
Producing Company	QJL NEW NATERIAL CO. LTD	Trademark	LARQ		
Date and Batch Number of Production	20210821	Character of Sample	Solid filter		
Quantity of Sample	2	Type and specification	BFRF050A		
Items of Analysis	Efficacy of LARQ Bottle Filter Against Chlorine				
Testing standard	NSF/ANSI42-2015 (Drinking Water Treatment Units - Aesthetic Effects) and GB/T 5750-2006 (Standard examination methods for drinking water)				
	The test plan is as follows:  1. The challenge water chlorine concentration was adjusted to 2.0 mg/L±10%.  2. Sampling test at 0%, 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, and 100% of the rated filter life. The test flow rate was 0.7-0.75 L/min, and ending at a net total of 250 L of water filtered through.				

### **Results:**

		After filtration (mg/L)		Removal rate (%)	
Water yield (L)	Before filtration (mg/L)	Sample 1	Sample 2	Sample 1	Sample 2
0	2.15	<0.01	0.01	>99.5	99.5
25	1.97	0.01	0.04	99.5	98.0
50	2.15	0.03	0.06	98.6	97.2
75	2.07	0.04	0.07	98.1	96.6
100	2.13	0.04	0.07	98.1	96.7
125	2.11	0.04	0.07	98.1	96.7
150	2.09	0.03	0.07	98.6	96.7
175	2.13	0.04	0.07	98.1	96.7
200	2.19	0.05	0.08	97.7	96.3
225	2.13	0.04	0.07	98.1	96.7
250	2.07	0.03	0.06	98.6	97.1



### Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 www.enviroteklab.com EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

Send 7	Го:
Justin	Wang

LARQ

Result: Passed Date: 11/29/2021

Company Name: LARQ

Tested To: NSF/ANSI Std. 53 - Haloacetic Acids Reduction Testing

Description: Sport Bottle Test Type: R&D testing

Project Manager: Jaime Young

Thank you for having your product tested by Envirotek Laboratory, LLC. Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Date: 11/29/2021

Report Authorization

Jaime A. Young
Lab Director



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

NSF/ANSI Std. 53 - Haloacetic Acids Reduction Testing: Passed

Company's Name: LARQ
Sample Type: R&D testing
Product: Sport Bottle Filter
Flow Rate: 800 ml/min
Filter Capacity: 200 Liters

Conditioning Procedure: Flush for 1 liter

Cycle: 30 Seconds on 60 seconds off

Physical Description of Sample: Mouth Drawn

Performance Indicator Device: No, test to 100% Capacity

Test Description: NSF/ANSI Std. 53 – Haloacetic Acids Reduction Testing

Trade Designation/Model Number: sport bottle Filter

Unit Volume: 0.01 L

**Performance Standard:** NSF/ANSI Std 600 – 2020

Pass/Fail Criteria (Maximum Product Water Concentration):

Monochloroacetic acid:  $6 \mu g/L$  Monobromoacetic acid:  $6 \mu g/L$  Dichloroacetic acid:  $0.7 \mu g/L$  Bromochloroacetic acid:  $6 \mu g/L$ 

Trichloroacetic acid: 6 µg/L

As per NSF/ANSI Std 600/EPA primary drinking water standard

Decision Rule: Simple Acceptance based on the NSF/ANSI/EPA drinking water limits

### **Water Characteristics Filter 1**

Sample Point	pH (7.5±0.5)	Temperature (20±3°C)	TDS (200 to 500 mg/L)	TOC (≥1.0 mg/L)	Turbidity (<1 NTU)
Start	7.68	18.9	256	1.2	0.44
25%	7.71	19.3	281	1.2	0.45
50%	7.63	18.9	258	1.1	0.48
75%	7.81	19.4	299	1.3	0.45
100%	7.62	19.3	301	1.2	0.41
Average	7.69	19.16	279	1.2	0.45



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 <u>www.enviroteklab.com</u> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### **Filter Data Summary Tables**

Monochloroacteic Acid				
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed	
10 UV	90.4	< 0.1	Pass	
50 Liters	67.8	< 0.1	Pass	
100 liters	79.9	< 0.1	Pass	
150 liters	72	<0.1	Pass	
200 liters	73.5	< 0.1	Pass	

Monobromoacteic Acid				
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Failed	
10 UV	73.7	< 0.1	Pass	
50 Liters	65.5	< 0.1	Pass	
100 liters	65.1	< 0.1	Pass	
150 liters	65.5	< 0.1	Pass	
200 liters	67.6	< 0.1	Pass	

Dichloroacetic Acid				
Accumulated Volume(L)	Influent Concentration µg/L	Effluent Concentration µg/L	Pass/Fai led	
10 UV	67.2	< 0.1	Pass	
50 Liters	61.1	< 0.1	Pass	
100 liters	61.4	< 0.1	Pass	
150 liters	65.2	< 0.1	Pass	
200 liters	63.9	< 0.1	Pass	

Haloacetic acids minimum reporting limit 0.1  $\mu g/L$ 

Bromochloroacetic Acid					
Accumulated Volume(L)					
10 UV	64.9	0.4	Pass		
50 Liters	57.9	0.4	Pass		
100 liters	57.8	0.4	Pass		
150 liters	60.7	0.2	Pass		
200 liters	60.3	0.2	Pass		

Trichloroacetic Acid					
Accumulated Volume(L)	Pass/Failed				
10 UV	58.2	< 0.1	Pass		
50 Liters	56.4	< 0.1	Pass		
100 liters	55.9	< 0.1	Pass		
150 liters	58.9	< 0.1	Pass		
200 liters	58.8	< 0.1	Pass		



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 <u>www.enviroteklab.com</u> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### **Filter System Tested**



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

Jaime A. Young
Jaime A. Young
Lab Director



### QFT LABORATORY, LLC. Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

Send To:

Justin Wang

LARQ

Result: Passed Date: 11/29/2021

Customer Name: LARQ

Tested To: NSF/ANSI Standard 53- PFAS Reduction

Description: Sport Bottle Test Type: R&D Testing

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Jaime A. Young
Jaime A. Young
Lab Director

Date: 11/29/2021



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 www.enviroteklab.com EPA ID # NJ01298 IAPMO ID# 000102 NJDEP ID # 08021 ANAB Cert ID AT-2866

#### NSF/ANSI Standard 53 PFAS Reduction PT 100%: Passed

Manufacturer's Name: LARQ

Sample Type: R&D Testing Product: Sport Bottle Filter Flow Rate: 800 mL/min

Filter Capacity: 200 Liters

Conditioning Procedure: Flush for 1 minute.

Cycle: 30 second on; 60 seconds off

Physical Description of Sample: Mouth Drawn

Performance Indicator Device: No, test to 100% Capacity

Test Description: Modified NSF/ANSI STD 53 – 2020 PFOA/PFOS

Trade Designation/Model Number: Sport Bottle Filter

Unit Volume: 0.01 L

**Performance Standard:** Modified NSF/ANSI STD 53 – 2020 PFOA/PFOS

**Pass/Fail Criteria:** ≤ 0.07 µg/L

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit

#### **Water Characteristics**

Sample Point	pH (7.5±0.5)	Temperature (20±2.5°C)	Turbidity (<1 NTU)	TOC (>1 mg/L)	TDS (200-500)
Start	7.62	18.9	0.41	1.2	258
25%	7.52	19.1	0.42	1.2	271
50%	7.31	18.9	0.44	1.3	298
75%	7.48	19.1	0.45	1.2	280
100%	7.62	19.3	0.43	1.3	299
Average	7.51	19.1	0.43	1.2	281



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 www.enviroteklab.com EPA ID # NJ01298 IAPMO ID# 000102 NJDEP ID # 08021 ANAB Cert ID AT-2866

### **PFOA Filter Data Summary Table**

Sample Point	Accumulated Volume	Influent 1 PFOA (µg/L)	Effluent A PFOA Concentration (µg/L)
Start	10 UV	0.47	< 0.01
25%	50 Liters	0.29	< 0.01
50%	100 liters	0.44	0.02
75%	150 liters	0.46	< 0.01
100%	200 liters	0.41	< 0.01

**PFOA** Reporting Limit: 0.01 μg/L

### **PFOS Filter Data Summary Table**

Sample Point	Accumulated Volume	Influent 1 PFOS (µg/L)	Effluent 1 PFOS Concentration (μg/L)
Start	10 UV	1.06	< 0.01
25%	50 Liters	0.77	< 0.01
50%	100 liters	0.95	< 0.01
75%	150 liters	0.96	< 0.01
100%	200 liters	1.02	< 0.01

PFOS Reporting Limit: 0.01 µg/L

### **PFOA & PFOS Data Summary Filter**

Sample Point	Accumulated Volume	Influent 1 Total PFOA + PFOS Effluent 1 Total PFOA + PFOS		Passing Criteria
_		Concentration (µg/L)	Concentration (µg/L)	
Start	10 UV	1.53	< 0.01	Pass
25%	50 Liters	1.06	< 0.01	Pass
50%	100 liters	1.39	0.02	Pass
75%	150 liters	1.42	< 0.01	Pass
100%	200 liters	1.43	< 0.01	Pass

### Filter System Tested



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

Jaime A. Young
Lab Director



### QFT LABORATORY, LLC. Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

Send To:

Justin Wang

LARQ

Result: Passed Date: 11/29/2021

Customer Name: LARQ.

Tested To: NSF/ANSI Std 401 Section 7, Group 1

Description: Sport Bottle Filter

Test Type: R&D Testing

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC. Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Jaime A. Young
Jaime A. Young
Lab Director

Date: 11/29/2021



1041 Glassboro Road Suite E-4, Williamstown NJ 08094 PHONE 856-583-0445 <u>www.enviroteklab.com</u> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### Standard 401 Emerging Compounds Group 1 Reduction PT 100%: Passed

Manufacturer's Name: LARQ

Sample Type: R&D Testing

Product Type: Sport Bottle Filter

Flow Rate: 800 ml/min

Filter Capacity: 200 Liters

Conditioning Procedure: Flush for 1 liter

Cycle: 30 Seconds on 60 seconds off

Physical Description of Sample: Mouth Drawn

Performance Indicator Device: No, test to 100% of Capacity

Test Description: NSF/ANSI Std 401 Section 7, Group 1- Emerging Compound Reduction Testing Group 1

Trade Designation/Model Number: Sport Bottle Filter

Unit Volume: 0.01 L

**Performance Standard:** NSF/ANSI Std 401 Section 7 – 2020

Pass/Fail Criteria (Emerging Compound Maximum Product Water Concentration):

Atenolol Passing criteria: 30 ng/L; Carbamazepine Passing criteria: 200 ng/L

**DEET** passing criteria: 200 ng/L; **Metolachlor** passing criteria: 200 ng/L

Meprobamate passing criteria: 60 ng/L; Trimethoprim passing criteria: 20 ng/L

Linuron passing criteria: 20 ng/L

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit

#### **Water Characteristics**

Sample Point	pH (7.5±0.5)	Temperatur e (20±3°C)	TDS (200 to 500 mg/L)	Turbidity (<1 NTU)	TOC (>1 mg/L)
Start	7.89	18.9	288	0.42	1.3
25%	7.72	19.3	298	0.42	1.3
50%	7.31	19.2	310	0.44	1.2
75%	7.48	19.1	288	0.45	1.2
100%	7.61	19.3	320	0.48	1.3
Average	7.60	19.1 6	301	0.44	1.3



1041 Glassboro Road Suite E-4, Williamstown NJ 08094 PHONE 856-583-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### **Trimethoprim Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Trimethoprim (112-168 ng/L)	Effluent 1 Trimethoprim (ng/L)	Passed/Failed ≤20 ng/L
Start	10 UV	146	<1	Pass
25%	50 Liters	148	<1	Pass
50%	100 liters	137	<1	Pass
75%	150 liters	160	<1	Pass
100%	200 liters	150	<1	Pass

Trimethoprim Reporting Limit: 1 ng/L

### Carbamazepine Filter Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 Carbamazepine (1120-1680 ng/L)	Effluent 1 Concentration (ng/L)	Passed/Failed ≤200 ng/L
Start	10 UV	1349	<10	Pass
25%	50 Liters	1320	61	Pass
50%	100 liters	1285	79	Pass
75%	150 liters	1112	60	Pass
100%	200 liters	1374	18	Pass

Carbamazepine Reporting Limit: 10 ng/L

### **Atenolol Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Atenolol (160-240 ng/L)	Effluent 1 Atenolol (ng/L)	Passed/Failed ≤30 ng/L
Start	10 UV	220	<1	Pass
25%	50 Liters	215	<1	Pass
50%	100 liters	200	<1	Pass
75%	150 liters	218	<1	Pass
100%	200 liters	232	1	Pass

Atenolol Detecting Limit: 1 ng/L

### **Meprobamate Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Meprobamate (320-480 ng/L)	Effluent 1 Meprobamate (ng/L)	Passed/Failed ≤60 ng/L
Start	10 UV	411	7	Pass
25%	50 Liters	405	<1	Pass
50%	100 liters	408	<1	Pass
75%	150 liters	392	<1	Pass
100%	200 liters	397	14	Pass

Meprobamate Reporting Limit: 1 ng/L

### **Metolachlor Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Metolachlor (1120-1680 ng/L)	Effluent 1 Metolachlor (ng/L)	Passed/Failed ≤200 ng/L
Start	10 UV	1327	<10	Pass
25%	50 Liters	1393	<10	Pass
50%	100 liters	1586	<10	Pass
75%	150 liters	1422	<10	Pass
100%	200 liters	1424	<10	Pass

Metolachlor Reporting Limit: 10 ng/L



1041 Glassboro Road Suite E-4, Williamstown NJ 08094 PHONE 856-583-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### **DEET Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 DEET (1120-1680 ng/L)	Effluent 1 DEET (ng/L)	Passed/Failed ≤200 ng/L
Start	10 UV	2010	<10	Pass
25%	50 Liters	1417	<10	Pass
50%	100 liters	1417	<10	Pass
75%	150 liters	1304	<10	Pass
100%	200 liters	1430	20	Pass

DEET Reporting Limit: 10 ng/L

### **Linuron Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Linuron (112-184 ng/L)	Effluent 1 (ng/L)	Passed/Failed ≤20 ng/L
Start	10 UV	167	<1	Pass
25%	50 Liters	155	<1	Pass
50%	100 liters	135	<1	Pass
75%	150 liters	148	<1	Pass
100%	200 liters	158	<1	Pass

Linuron Reporting Limit: 1 ng/L

### **Filter System Tested**



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

Jaime A. Young
Lab Director



### QFT LABORATORY, LLC. Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 www.enviroteklab.com EPA ID # NJ01298 ANAB Cert ID AT-2866

Send To:

Justin Wang

LARQ

Result: Passed Date: 11/29/2021

Jaime A. Young

Jaime A. Young Lab Director

Customer Name: LARQ

Tested To: NSF/ANSI Std 401 Section 7, Group 2

Description: Sport Bottle Filter

Test Type: R&D Testing

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC. Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization

Date: 11/29/2021



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 www.enviroteklab.com EPA ID # NJ01298 IAPMO ID# 000102

### NSF/ANSI Standard 401 Emerging Compounds Group 2 Reduction PT 100%: Passed

Manufacturer's Name: LARQ Sample Type: Sport Bottle Filter

Flow Rate: 800 ml/min Filter Capacity: 200 liters

Conditioning Procedure: Flush for 1 liter

Cycle: 30 seconds on 60 seconds off

Physical Description of Sample: Mouth Drawn

Performance Indicator Device: No, test to 100% of Capacity

Test Description: NSF/ANSI Std. 401, Section7, Group 2 - Emerging Compound Group 2 Reduction Testing

Trade Designation/Model Number: Spot bottle Filter

Unit Volume: 0.01 L

**Performance Standard:** NSF/ANSI 401, Section 7 – 2020

Pass/Fail Criteria (Emerging compound Maximum Product Water Concentration):

TCEP passing criteria: 700 ng/L TCPP passing criteria: 700 ng/L

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit

### **Water Characteristics**

Sample Point	pH (7.5±0.5)	Temperature (20±3°C)	TDS (200 to 500 mg/L)	Turbidity (<1 NTU)	TOC (≥1.0 mg/L)
Start	7.24	18.9	299	0.41	1.2
25%	7.48	19.1	281	0.41	1.2
50%	7.48	19.3	283	0.42	1.2
75%	7.88	19.4	298	0.44	1.2
100%	7.41	19.2	308	0.48	1.3
Average	7.50	19.18	294	0.43	1.2



1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 www.enviroteklab.com EPA ID # NJ01298 IAPMO ID# 000102

### **TCEP Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 TCEP (ng/L)	Effluent 1 TCEP Concentration (ng/L)	Passed/Failed
Start	10 UV	4670	10	Pass
25%	50 Liters	4811	32	Pass
50%	100 liters	4403	17	Pass
75%	150 liters	5597	35	Pass
100%	200 liters	4491	105	Pass

TCEP Reporting Limit: 10 ng/L

### **TCPP Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 TCPP (ng/L)	Effluent 1 TCPP Concentration (ng/L)	Passed/Failed
Start	10 UV	4170	<10	Pass
25%	50 Liters	4427	42	Pass
50%	100 liters	5136	<10	Pass
75%	150 liters	4864	<10	Pass
100%	200 liters	4491	13	Pass

TCPP Reporting Limit: 10 ng/L

### **Filter System Tested**



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

Jaime A. Young
Lab Director



### QFT LABORATORY, LLC. Test Report

1041 Glassboro Road Suite D-1, Williamstown NJ 08094 PHONE 856-533-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

Send To:

Justin Wang

LARQ

Result: Passed Date: 11/29/2021

Customer Name: LARQ

Tested To: NSF/ANSI Standard 401 Emerging Compounds Group 3 Reduction PT 100%

Description: Sport Bottle Filter

Test Type: R&D Testing

Project Manager: Jaime Young

Thank you for having your product tested by QFT Laboratory, LLC. Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Jaime A. Young

Jaime A. Young Lab Director

Report Authorization

Date: 11/29/2021



1041 Glassboro Road Suite E-4, Williamstown NJ 08094 PHONE 856-533-0445 <u>www.enviroteklab.com</u> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### NSF/ANSI Standard 401 Emerging Compound Group 3 Reduction PT 100%: Passed

Manufacturer's Name: LARQ

Sample Type: R&D Testing

Product Type: Sport Bottle Filter

Flow Rate: 800 ml/min Filter Capacity: 200 liters

Conditioning Procedure: Flushed for 1 liter

Cycle: 30 seconds on 60 seconds off

Physical Description of Sample: Mouth drawn

Performance Indicator Device: NA, test to 100% of Capacity

Test Description: NSF/ANSI Std. 401, Section 7, Group 3 – Emerging Compound Group 3 Reduction Testing

Trade Designation/Model Number: Sport Bottle Filter

Unit Volume: 0.01 L

**Performance Standard:** NSF/ANSI 401 – 2020

Pass/Fail Criteria (Emerging Compound Maximum Product Water Concentration):

Estrone passing criteria: 20 ng/L Bisphenol A passing criteria: 300 ng/L Nonylphenol passing criteria: 200 ng/L

Decision Rule: Pass/Fail based on simple acceptance of the analytical results above the NSF/ANSI Std limit

### **Water Characteristics**

Sample Point	pH (7.5±0.5)	Temperature (20±3°C)	TDS (200 to 500 mg/L)	Turbidity (<1 NTU)	TOC (>1)
Start	7.41	18.9	220	0.39	1.2
25%	7.48	18.9	248	0.41	1.2
50%	7.31	18.7	251	0.44	1.3
75%	7.48	19.1	288	0.41	1.2
100%	7.21	19.2	210	0.42	1.3
Average	7.38	19.0	243	0.41	1.2



1041 Glassboro Road Suite E-4, Williamstown NJ 08094 PHONE 856-533-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### **Phenytoin Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Phenytoin (160-240 ng/L)	Effluent 1 Phenytoin (ng/L)	$\begin{array}{c} Passed/Faile \\ d \leq 30 ng/L \end{array}$
Start	10 UV	164	<1	Pass
25%	50 Liters	256	<1	Pass
50%	100 liters	211	<1	Pass
75%	150 liters	202	<1	Pass
100%	200 liters	200	19	Pass

Phenytoin Reporting Limit: 1 ng/L

### Naproxen Filter Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 Naproxen (112-168 ng/L)	Effluent 1 Naproxen (ng/L)	Passed/Failed ≤20 ng/L
Start	10 UV	236	3	Pass
25%	50 Liters	188	<1	Pass
50%	100 liters	148	<1	Pass
75%	150 liters	147	<1	Pass
100%	200 liters	170	8	Pass

Naproxen Reporting Limit: 1 ng/L

### **Bisphenol A Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Bisphenol A (1600-2400 ng/L)	Effluent 1 Bisphenol A (ng/L)	Passed/Failed ≤300 ng/L
Start	10 UV	1356	<10	Pass
25%	50 Liters	2248	<10	Pass
50%	100 liters	2222	<10	Pass
75%	150 liters	2196	<10	Pass
100%	200 liters	2398	<10	Pass

Bisphenol A Reporting Limit: 10 ng/L

### **Estrone Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Estrone (112-168 ng/L)	Effluent 1 Estrone (ng/L)	Passed/Failed ≤20 ng/L
Start	10 UV	214	2	Pass
25%	50 Liters	167	<1	Pass
50%	100 liters	147	<1	Pass
75%	150 liters	143	<1	Pass
100%	200 liters	156	<1	Pass

Estrone Reporting Limit: 1 ng/L

### **Ibuprofen Filter Data Summary Table**

Sample Point	Accumulated Volume Effluent 1	Influent 1 Ibuprofen (320-480 ng/L)	Effluent 1 Ibuprofen (ng/L)	Passed/Failed ≤ 60 ng/L
Start	10 UV	348	<10	Pass
25%	50 Liters	465	<10	Pass
50%	100 liters	434	<10	Pass
75%	150 liters	408	<10	Pass
100%	200 liters	484	<10	Pass

Ibuprofen Reporting Limit: 10 ng/L



1041 Glassboro Road Suite E-4, Williamstown NJ 08094 PHONE 856-533-0445 <a href="https://www.enviroteklab.com">www.enviroteklab.com</a> EPA ID # NJ01298 IAPMO ID# 000102 ANAB Cert ID AT-2866

### Nonylphenol Filter Data Summary Table

Sample Point	Accumulated Volume Effluent 1	Influent 1 Nonylphenol (1120-1680 ng/L)	Effluent 1 Nonylphenol (ng/L)	Passed/Failed ≤ 200 ng/L
Start	10 UV	1448	<10	Pass
25%	50 Liters	1621	<10	Pass
50%	100 liters	1524	<10	Pass
75%	150 liters	1502	<10	Pass
100%	200 liters	1703	<10	Pass

Nonylphenol Reporting Limit: 10 ng/L

### **Filter System Tested**



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

Jaime A. Young
Jaime A. Young
Lab Director



Third-party Lab Reports

LARQ Bottle Filter

Essential



NBF24-0002688-02

Date: 2024-03-27

Client Name:

LARQ, INC.

Client Address: 1900 South Norfolk Street, Suite 350 San Mateo, CA 94403, USA

Sample Name:

Bottle Filter Essential

Sample Batch No.:

20231219

Production Date:

20231219

Manufacturer:

QJL NEW NATERIAL CO. LTD

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Date of Sample Received:

2024-02-29

**Testing Period:** 

2024-02-29 ~ 2024-03-27

Test Requested:

Select test(s) as requested by the client.

Test Method(s):

Please refer to next page(s).

Test Result(s):

Please refer to next page(s).





Verification:

SGS-CSTC Standards Technical Services Co., Ltd.Ningbo Branch Page 1 of 3



Allention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (85-755) \$307 1443, or email: Cn Deccheck@sps.com 100.3 100.4 Building Langroundwidty Park, No.1177 (Ingyen Road, Kingbo National M-Tech Taze, Hingbo China 315040 t 400 -691 - 0488 f (86-574) 8792 9318 www.syn.group.com.cm 中国-浙江-宁波市国家高級区该云房1177号波云产业园3号级,4号楼 鄉鄉: 315040 1 400-691-0488 f (86-574) 8752 9318 e sps.chiva@sps.com



NBF24-0002688-02

Date: 2024-03-27

Sample Description:

Sample No.	SGS Sample ID	Description	
1	NBF24-0002688-0001	Bottle Filter Essential, Quantity: 2 sets	

#### **Test Requested:**

Selected test(s) as requested by applicant:

Removal rates of Perfluorooctane Sulfonate (PFOS) at 0L, 50L, 100L, 150L and 200L of operating life.

#### **Test Method:**

Challenge Testing: Refer to NSF/ANSI 53-2022: Drinking Water Treatment Units - Health Effects Perfluorooctane Sulfonate (PFOS): Refer to USEPA 537.1-2020 Determination of ed perfluorinated alkyl acids in drinking water by solid phase extraction and liquid chromatography/tandem mass spectrometry

### Test Result(s):

**Table1 Spiked substance** 

NO	Test item(s)	Spiked substance(s)	Ы
1	#Perfluorooctane Sulfonate (PFOS)	Perfluorooctane Sulfonate (PFOS)	

#### Table 2

				Test re	esult(s)		Requirement(s)  Maximum effluent concentration (µg/L) NSF/ANSI 53	
Detection point(s)	Test item(s)	Unit(s)	Test method(s)	Influent spiked water	Effluent filtrated water	*Removal rate(s)%		
OL	#Perfluorooctane Sulfonate (PFOS)	µg/∟	EPA 537.1	0.60	<0.01	>98.33	0.02	
50L	#Perfluorooctane Sulfonate (PFOS)	μg/L	EPA 537.1	0.60	<0.01	>98.33	0.02	
100L	#Perfluorooctane Sulfonate (PFOS)	μg/L	EPA 537.1	0.60	<0.01	>98.33	0.02	
150L	#Perfluoroctane		EPA 537.1	0.63	<0.01	>98.41	0.02	
200L	#Perfluorooctane Sulfonate (PFOS)	μg/L	EPA 537.1	0.63	<0.01	>98.41	0.02	

#### Remark:

- 1. \*Removal rate (%) = (test result of Influent spiked water test result of Effluent filtrated water)/ test result of Influent spiked water ×100%
- 2. The flow rate was 0.8 L/min
- 3. The systems shall be operated on a 30 s-on / 60 s-off basis
- 4. # Test items were carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SGS-CSTC Standards Technical Services Co., Ltd.Ningbo Branch Page 2 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's solic responsibility is to its Client and this document only and within the limits of cransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alternion, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attentions: To chesk the authenticity of testing inspection report & certificate, please contact as at telephone: (85-75) 8307 1443, or email: CN.Docoteck-Osas contact with institutions filed plants in the contact with the times filed likeholatical kitch fees these files 24500 - 4400 - 601 - 0488 | f/8-574/8759 93/8 | www.sagnoup.com.cr

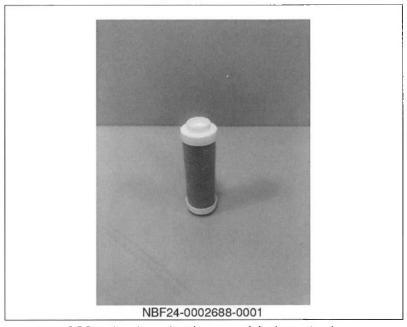
| MO3\_MO1-Basing Linguagitating Mo1/Triaggue Road, Neglo National N-Text Zone, Neglo, China 315040 t 400 - 691 - 0488 f (86-574) 8752 9318 www.sgsgroup.com.cn |中国 - 浙江 - 宁波市国家高新区波云路1177号凌云产业园尽号楼,4号楼 廊红编: 315040 t 400 - 691 - 0488 f (86-574) 8752 9318 e sgs.china@sgs.com



NBF24-0002688-02

Date: 2024-03-27

#### Sample photo:



SGS authenticate the photo on original report only

### Attention:

Unless otherwise stated the results shown in this report refer only to the items tested. Within the territory of the People's Republic of China, this test report shall only be used for scientific research, technical research and development, teaching, and internal quality control.

\*\*\*\* End\*\*\*\*

SGS-CSTC Standards Technical Services Co., Ltd.Ningbo Branch Page 3 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's Sit Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized eleration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this fest report refer only to the sample(s) tested.

Attention: To check the authoritority of testing finaspections report & certificate, please contact us at telephone (85-75) 8307 1443, or email: CN.Document/seasing/limitage/times/limitage/times/limitage/limitage/times/limitage/times/limitage/limitage/times/limitage/times/limitage/limitage/times/limitage/limitage/times/limitage/limi

| NO.3.Wid.Padding Lingman Index) Past, No. 1177 Lingman Road, No.500 Hollows 1504.0 (1400 - 691 - 0488 (166-574) 8752 9318 www.spsgroup.com.cn 中国 - 浙江 - 宁波市国家高新区皮云璇1177号凌云产业园3号楼,4号楼 邮编: 315040 (1400 - 691 - 0488 (166-574) 8752 9318 e sga.china@sgs.com



NBF24-0002688-01

Date: 2024-03-27

Client Name:

LARQ, INC.

Client Address: 1900 South Norfolk Street, Suite 350 San Mateo, CA 94403, USA

Sample Name:

Bottle Filter Essential

Sample Batch No.:

20231219

Production Date:

20231219

Manufacturer:

QJL NEW NATERIAL CO. LTD

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Date of Sample Received:

2024-02-29

**Testing Period:** 

2024-02-29 ~ 2024-03-27

Test Requested:

Select test(s) as requested by the client.

Test Method(s):

Please refer to next page(s).

Test Result(s):

Please refer to next page(s).





SGS-CSTC Standards Technical Services Co., Ltd.Ningbo Branch Page 1 of 3



stop Park, No.1177 Lingyan Road, Nington Hattosal He-Tech Zone, Nington, China 31:5040 t 400 - 691 - 0488 1 (86-574) 8752 9318 www.sgsgroup.com.cn 中国-浙江-宁波市国家高新区接云路1177号接云产业图3号楼,4号楼 邮编: 315040 1 400-691-0488 [ (86-574) 8752 9318 e sgs.china@sgs.com



NBF24-0002688-01

Date: 2024-03-27

Sample Description:

Sample No.	SGS Sample ID	Description		
1	NBF24-0002688-0001	Bottle Filter Essential, Quantity: 2 sets		

#### **Test Requested:**

Selected test(s) as requested by applicant:

Removal rates of Perfluorooctanoic acid (PFOA) at 0L, 50L, 100L, 150L and 200L of operating life.

#### Test Method:

Challenge Testing: Refer to NSF/ANSI 53-2022: Drinking Water Treatment Units - Health Effects Perfluorooctanoic acid (PFOA): Refer to USEPA 537.1-2020 Determination of ed perfluorinated alkyl acids in drinking water by solid phase extraction and liquid chromatography/tandem mass spectrometry

### Test Result(s):

Table1 Spiked substance

NO	Test item(s)	Spiked substance(s)
1	#Perfluorooctanoic acid (PFOA)	Perfluorooctanoic acid (PFOA)

Tac	ole 2			Test result(s)			Requirement(s)	
Detection point(s)	Test item(s)	Unit(s)	Test method(s)	Influent spiked water	Effluent filtrated water	*Removal rate(s)%	Maximum effluent concentration (µg/L) NSF/ANSI 53	
OL	#Perfluorooctanoic acid (PFOA)	μg/L	EPA 537.1	0.65	<0.01	>98.46	0.02	
50L	#Perfluorooctanoic acid (PFOA)	μg/L	EPA 537.1	0.65	<0.01	>98.46	0.02	
100L	#Perfluorooctanoic acid (PFOA)	μg/L	EPA 537.1	0.65	<0.01	>98.46	0.02	
150L	#Perfluorooctanoic acid (PFOA)	μg/L	EPA 537.1	0.80	<0.01	>98.75	0.02	
200L	#Perfluorooctanoic acid (PFOA)	μg/L	EPA 537.1	0.80	<0.01	>98.75	0.02	

- 1. \*Removal rate (%) = (test result of Influent spiked water test result of Effluent filtrated water)/ test result of Influent spiked water ×100%
- 2. The flow rate was 0.8 L/min
- 3. The systems shall be operated on a 30 s-on / 60 s-off basis
- 4. # Test items were carried out by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

SGS-CSTC Standards Technical Services Co., Ltd.Ningbo Branch Page 2 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Cocument.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-a-Cocument.aspx</a>. Attention is do drawn to the limitation of liability, indemnification and jurisdiction issues offened therein. Any holder of this document is advised that information contained hereon reflects the Company's Sindings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to list Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alternion, forgery or fastification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone (88-755) 8307 1443, or small: CN.Docchack@sgs.com" | Page 1018 | Page

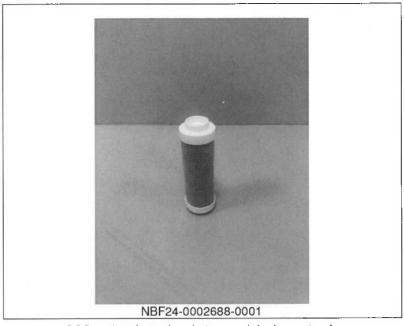
NO.3, NO.4 Basking Linggran Industry Park, No.1177 Linggran Road, Niegbo Niedonsił H. Tech Zone, Hingbo, Chinz 315040 t 400 - 691 - 0488 f (86-574) 8752 9318 www.sgs.group.com.cn 中国-浙江·宁波市国家高新区安云路1177号凌云产业园3号楼,4号楼 邮编: 315040 t 400-691-0488 f (86-574)87529318 e sgs.china@sgs.com



NBF24-0002688-01

Date: 2024-03-27

Sample photo:



SGS authenticate the photo on original report only

#### Attention:

Unless otherwise stated the results shown in this report refer only to the items tested. Within the territory of the People's Republic of China, this test report shall only be used for scientific research, technical research and development, teaching, and internal quality control.

\*\*\* End\*\*\*

> SGS-CSTC Standards Technical Services Co., Ltd.Ningbo Branch Page 3 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.gas.com/ent/Terms-and-Conditions.aspx">http://www.gas.com/ent/Terms-and-Conditions.aspx</a>, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sas.com/ent/Terms-and-Conditions/Terms-a-Document.aspx">http://www.sas.com/ent/Terms-and-Conditions/Terms-a-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's Instructions, if any here Company's acid responsibility is to its Client and this document does not expend the limits of transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in tail, without prior written approval of the Company, Ary unauthorized eliteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the Attention: To check the authenticity of testing inspections or sport is cartificate, please contact us at stephone (88-755)8397 3443, or email: CN.Docobeck@sgs.som</a>

1803,180.4 Routing Linguan Industry Fast, No.1117 Linguan Reed, Ningto Residual H. Nech Ziere, Ningto, Chila: 315040 1 400-691-0488 1 (86-574) 8752 9318 www.sgs.group.com.cn 中國·浙江·宁波市国家高新区波云路1177号凌云产业园3号楼,4号楼 邮编; 315040 ±400-691-0488 f (88-574)87529318 \* sgs.china@sgs.com



XMF24-0004865-09

Date: 2024-07-09

Client Name:

LARQ INC

Client Address: 1900 South Norfolk Street, Suite 350 San Mateo, CA 94403, USA

Sample Name:

LARQ Bottle Filter Essential

Sample Batch No.:

May 28, 2024

**Production Date:** 

May 28, 2024

Manufacturer:

Xiamen Quanjiale New Materials Co., Ltd.

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Date of Sample Received:

2024-06-18

**Testing Period:** 

2024-06-18 ~ 2024-07-03

Test Requested:

Select test(s) as requested by the client.

Test Method(s):

Please refer to next page(s).

Test Results(s):

Please refer to next page(s).



SGS Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.Xiamen Branch Page 1 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed available on request or accessible at <a href="https://www.ags.com/isn/Farms-and-Conditions">https://www.ags.com/isn/Farms-and-Conditions</a>. Any third of this document is advised that information contained hereor the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Compan responsibility is to its Client and this document does not excense apparaise to a transaction from receiving all their rights and ob under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Comp to the fullest extent of the law. Unless otherwise stated the results shown in the Attention. To sheek the subsequent of the law.

l No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiannen, Fusian Province, China. 361101

中國•福建•護门•火炬(翔安)产业区翔紅路31号

邮编: 361101

1 400 - 691 - 0488 sgs.china@sgs.com 1 400 - 691 - 0488



XMF24-0004865-09

Date: 2024-07-09

Sample Description:

Sample No.	SGS Sample ID	Description
1	XMF24-0004865-0001	LARQ Bottle Filter Essential

#### Test requested:

Selected test(s) as requested by applicant: Test the Removal rate of Free chlorine at the start-up, 20 L, 40 L, 60 L, 80 L, 100 L, 120 L, 140 L, 160 L, 180 L, 200 L, 220 L, 240 L, 260 L, 280 L, 300 L of the service life.

### Test method(s):

Chlorine reduction testing: Refer to NSF/ANSI 42-2021 Drinking Water Treatment Units-Aesthetic Effects. Free Chlorine: GB/T 5750.11-2023 Standard examination methods for drinking water – Disinfectants parameters.

Test Result(s):

iest nesu	11(5).							
		Unit(s)	Test method(s)		Test Result(	*Removal	*Removal	
Test point	Test item(s)			Influent	Effluent filt	rated water	Rate 1	Rate 2 (%)
<b>,</b>	(0,			spiked water	Sample 1	Sample 2	(%)	
Start-up	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	1.98	<0.02	0.02	>98.9	99.0
20 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.01	<0.02	0.02	>99.0	99.0
40 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.00	0.03	0.04	98.5	98.0
60 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	1.99	0.03	0.04	98.5	98.0
80 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.00	0.04	0.05	98.0	97.5
100 L	#Free Chlorine	mg/L	GB/T 5750,11- 2023 4.3	2.00	0.06	0.07	97.0	96.5
120 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.01	0.07	0.07	96.5	96.5
140 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.00	0.08	0.08	96.0	96.0
160 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.01	0.09	0.10	95.5	95.0
180 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.00	0.10	0.10	95.0	95.0
200 L	#Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.01	0.11	0.12	94.5	94.0
220 L	Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.02	0.12	0.12	94.1	94.1
240 L	Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.00	0.13	0.13	93.5	93.5
260 L	Free Chlorine	mg/L	GB/T 5750.11- 2023 4.3	2.02	0.14	0.15	93.1	92.6

SGS-CSTC Standards Technical Services Co., Ltd.Xiamen Branch Page 2 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.ags.com/en/Terms.and-Conditions.">https://www.ags.com/en/Terms.and-Conditions.</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised thin formation contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from excelling all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approved of the Company, Any unauthorized elteration, forgery or falsification of the content or appearance of this document is universal and office and the surface of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested.

itention: To check the suitenticity of testing Anspection report & certificate, please contact un at telephone; (88-735) \$327 144 r small: <u>CN\_Doccheck@squ.com</u>

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiannen, Fujian Province, China. 361101 中国•福建•夏门•火炬(朔安)产业区翔虹路31号 邮编: 361101

1 400 - 691 - 0488

sgs.china@egs.com



Test

point

280 L

300 L

XMF24-0004865-09

Test method(s)

GB/T 5750.11-

2023 4.3 GB/T 5750.11-

2023 4.3

	Date:	2024-07-09		
Fest Result(	3)	*Removal	*Removal	
Effluent filt	rated water	Rate 1	Rate 2	
Sample 1	Sample 2	(%)	(%)	
0.20	0.21	90.2	89.8	

88.8

87.8

### Remark:

1.\*Removal Rate (%) = (The test result of Influent spiked water - The test result of Effluent filtrated water) / The test result of Influent water x100%

Influent

spiked

water

2.05

2.05 \*

Test Res

0.23

0.25

2.The flow rate is 0.8 L/min.

Test

item(s)

Free

Chlorine

Free

Chlorine

Unit(s)

mg/L

mg/L

3.# The test result(s) was/were copied from test report No. XMF24-0004865-05.

#### Attention:

Chinese shall prevail in this report.

This Test Report supersedes the Test Report No. XMF24-0004865-07 issued by SGS-CSTC Standards Technical Services Co., Ltd.Xiamen Branch Original test report will be invalid from today. Unless otherwise stated the results shown in this report refer only to the items tested. Within the territory of the People's Republic of China, this test report shall only be used for scientific research, technical research and development, teaching, and internal quality control.

\*\*\* End\*\*\*

### SGS-CSTC Standards Technical Services Co., Ltd.Xiamen Branch Page 3 of 3



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Servi available on request or accessible at <a href="https://www.ssa.com/en/Terms-and-Conditions">https://www.ssa.com/en/Terms-and-Conditions</a>. Attention is drawn to the lindemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contains.

No.31 Xianghong Road, Xieng'An Torch Industrial Zone, Xiemen, Fujian Province, China. 361101 中国·福建·厦门·火炬(精安)产业区稳虹路31号 邮编: 381101 t 400-691-0488 sgs.china@sgs.com