

Purification Performance Data

SaWa Flex

1 Introduction

This document contains the purification performance data of the SaWa Flex against different classes of microorganisms, *i.e.*, bacteria and virus, representing groups of pathogens that are transmitted through drinking water. In addition, this document outlines the test procedures used for the performance testing and test certificates from third-party verifications. The SaWa Flex performance has been assessed based on international standard analysis methods and the guidelines of minimum performance criteria, Log Reduction Values, LRV (Table 1), for household water treatment technologies set by the World Health Organization (WHO)¹.

Table 1: Overview of performance criteria set by WHO

Microorganism	LRV		
	Comprehensive Protection		Targeted Protection (*)
	(***)	(**)	
Bacteria	≥ 4	≥ 2	'Protective' in two microbial classes and documented health gains
Virus	≥ 5	≥ 3	
Protozoan cysts	≥ 4	≥ 2	

2 Performance results of SaWa Flex

Table 2 summarizes the purification performance of the SaWa Flex against different microorganisms. The performance is reported as the percentage of contaminant reduction, based on the Log Reduction Value calculated using the formula: $LRV = \log_{10} (C_{\text{untreated water}} / C_{\text{treated water}})$, where C = microbial conc. in water. The percentage of contaminant reduction is reported as:

- 1 LRV = 90% reduction
- 2 LRV = 99% reduction
- 3 LRV = 99.9% reduction
- 4 LRV = 99.99% reduction
- 5 LRV = 99.999% reduction
- 6 LRV = 99.9999% reduction
- 7 LRV = 99.99999% reduction

Table 2: Overview of performance tests at different test laboratories

Microorganism	Pre-treatment concentration [CFU/1 ml]	Post-treatment concentration after 4 hours [CFU/100 ml]	Reduction		Test laboratory
			LRV	%	
Bacteria					
Escherichia coli	1.0 x 10 ⁶	<2.0 x 10 ⁰	5*	>99.999	CIEMAT-Plataforma Solar de Almería (PSA), Spain
	>1.0 x 10 ⁵	<2.0 x 10 ⁰	5*	>99.999	CIEMAT-Plataforma Solar de Almería (PSA), Spain
	>1.0 x 10 ⁵	<2.0 x 10 ⁰	5*	>99.999	CIEMAT-Plataforma Solar de Almería (PSA), Spain
	1.3 x 10 ⁶	<0.01 x 10 ⁰	>8.1**	>99.99999	KWR (is WHO Collaborating Centre on Water Quality and Health)
	9.9 x 10 ⁵	4.9 x 10 ¹	4.3*	>99.99	KWR (is WHO Collaborating Centre on Water Quality and Health)
	1.5 x 10 ⁷	<1	7	>99.99999	Tanzania Bureau of Standards (TBS)
	2.3 x 10 ⁴	<1	>4	>99.99	Kenya Bureau of Standards (KEBS)
MS2	1.4 x 10 ⁶	6.8 x 10 ⁵	0.3*	<90	KWR (is WHO Collaborating Centre on Water Quality and Health)
	2.5 x 10 ⁶	1.7 x 10 ⁴	2.2**	>99	KWR (is WHO Collaborating Centre on Water Quality and Health)

*LRV calculated from results achieved in GTW .

**LRV calculated from results achieved in CTW

3 Test procedures

The testing and verification of the SaWa Flex have been conducted at different independent test laboratories to evaluate the performance against natural microbiological contaminants as well as indicator microorganisms from different contaminated drinking water sources.

Prior to each performance test, thorough instruction in the correct usage of the SaWa Flex was given to the laboratory personnel, to make sure that the tests represent an estimate of the SaWa Flex effectiveness in actual use with an exposure time of 4 hours under sunny conditions.

The performance tests included both naturally contaminated water sources with different physicochemical quality, as well as microbiological spiked general test waters (GTW) representing groundwater sources, as well as challenge test waters (CTW) with turbidity levels of up to 30 NTU, thus spanning a range of different pre-treatment concentrations. Furthermore, the test conditions included both natural weather conditions as well as simulated solar irradiation conditions, following the WHO-recommended² solar simulation settings, delivering an irradiant range of 300nm – 800nm, equivalent to 550 W/m².

The performance tests have been conducted with replicates of different SaWa Flex units and appropriate controls.

Bacterial analysis:

Organisms tested:

- *Escherichia coli* (laboratory strain)

The analytical methods used for enumerating *E. coli* and total coliform bacteria before and after water treatment in the SaWabags include the membrane filtration methods, ISO 9308-1³ (for the majority of tests) and the equivalent IS 15185, as well as APHA 9222⁴, the U.S. EPA approved Colilert method⁵ and standard spread plate methods⁶ with selective culture media.

Virus analysis:

Organisms tested:

- MS2 coliphage

The analytical methods used for enumeration of MS-2 before and after SaWa Flex treatment are based on the plaque assays. (See attached report from KWR)

4 References

1. WHO, 2014. General Testing Protocol #10: Solar (UV and heat) Batch Systems (with or without pre-filtration and/or disinfection addition).
<https://www.who.int/tools/international-scheme-to-evaluate-household-water-treatment-technologies/resources>
2. ISO 9308-1:2014. Water quality – Enumeration of *Escherichia coli* and coliform bacteria. Part 1: Membrane filtration method for waters with low bacterial background flora. <https://www.iso.org/standard/55832.html>
3. APHA 9222. Membrane filter technique for members of the coliform group. American Public Health Association. Standard method for the examination of water and wastewater, 21st edition, 2005.
4. IDEXX laboratories. Colilert test kit for detecting total coliforms and *E. coli* in water. <https://www.idexx.com/files/colilert-procedure-en.pdf>



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E INNOVACIÓN

Ciemat Centro de Investigaciones
Energéticas, Medioambientales
y Tecnológicas
PLATAFORMA SOLAR DE ALMERÍA

Analytical report

Client: 4Life Solutions ApS, Reg: DK39267926, Fruebjergvej 3, 2100 Copenhagen Ø, Denmark

Samples: General test water (GTW) prepared according to the WHO International Scheme to Evaluate Household Water Treatment Technologies (Solar Disinfection Batch Systems (with or without pre-filtration and/or disinfection addition, V 3.0). The GTW were spiked with *E. coli* k12 (obtained from Spanish Culture Collection Type, CECT 4624 equivalent to ATCC 23631). The water was exposed to natural sunlight in three simultaneous SaWaflex (SW) containers and replicated for 3 consecutive days at PSA facilities. A dark control was also performed.

Laboratory: Water Technologies Laboratory (<https://www.psa.es/en/laboratories/aguas.php>). Plataforma Solar de Almería-Centro de investigaciones energéticas, medioambientales y tecnológicas (PSA-CIEMAT). Carretera de Senés km. 4,5, Tabernas (04200), Almería (Spain).

Analytical methods: Enumeration and quantification of *E. coli* k12 were done according to the WHO International Scheme to Evaluate Household Water Treatment Technologies (Solar Disinfection Batch Systems (with or without pre-filtration and/or disinfection addition, V 3.0).

Results:

06/08/2024				07/08/2024			
Solar Dose				Solar Dose			
Time	(kJ/m2)	CFU/mL	CFU/mL	Time	(kJ/m2)	CFU/mL	CFU/mL
0	0	1350000	1150000	0	866666	833333	833333
30	50	1033333	8833333	49	450000	783333	533333
60	109	766666	850000	107	383333	700000	366666
90	174	416666	48333	172	153333	113333	91666
120	245	50000	10666	243	20833	21000	21000
150	322	2383	2150	320	374	378	282
180	401	2	2	400	2	2	2
Reduction		99,9998	99,9998		99,9997	99,9997	99,9997

08/08/2024				DARK Control	
Solar Dose					
Time	(kJ/m2)	CFU/mL	CFU/mL	Time	CFU/mL
0	0	750000	600000	0	1350000
30	49	300000	250000	30	1310000
60	106	48333	41666	60	1420000
90	171	2000	500	90	1380000
120	241	48	76	120	1270000
150	317	4	4	150	1290000
180	396	2	2	180	1300000
Reduction		99,9997	99,9996		3,7037

Dr. M. Inmaculada Polo López
Plataforma Solar de Almería-CIEMAT
Email: mpolo@psa.es Phone: +34950387800

POLO LOPEZ
MARIA
INMACULADA
- 53709312B

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LOPEZ MARIA INMACULADA -
53709312B
Número de reconocimiento (246)
C=ES
Identificador=ECDS-11709108,
gobernante=MARIA INMACULADA,
emisor=CIEMAT, cn=POLO LOPEZ
MARIA INMACULADA - 53709312B
Fecha: 2024.08.24 08:07:12 +0200

**TANZANIA BUREAU OF STANDARDS**

P O Box 9524

Dar es Salaam

Tel: +255 22 2450206/ +255 22 2450949/ +255 22 2450298

Fax: +255 22 2450959

E-mail: info@tbs.go.tz – Physical Address: Junction Morogoro/Sam Nujoma Rds, Ubungo.

DATE

2024-12-04

TH 08

TBS Code No.

TT 19740

Page 1 of 2

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**TEST REPORT
ML/19528/2024**

This report is issued in accordance with Section 4 (1) (c) of the Standards Act No. 2 of 2009. The report shall not be published, other than in full, without prior written approval of the Director General, TBS.

Client: 4LIFE SOLUTION AFRICA

Client address: DAR ES SALAAM, DAR-ES-SALAAM

Sample: 4 PIECES OF WATER PURIFICATION SYSTEM (SAWA)

Site and position sampled: 4LIFE SOLUTION AFRICA

Sampling plan: UNKNOWN

Date of sampling: 2024-10-28

Date received: 2024-10-29

Date started: 2024-10-31

Date finished: 2024-12-04

Specification: CUSTOMER SPECIFICATIONS

Test method: AS INDICATED IN THE TABLE OF RESULTS

1.0 INTRODUCTION

One sample of 4 pieces of water purification system (SaWa) was submitted at TBS Microbiology laboratory for testing its efficacy for water purification. The sample was given TBS Code No. **TT 19740**.

2.0 ATTENTION

This test report pertains **ONLY** to the sample brought to TBS by the client for type testing. The results should not be regarded as representative of the quality of any commercial consignment nor be used for any commercial negotiations. Representative test samples for commercial negotiations are sampled by TBS Inspectors.

3.0 TEST RESULTS

The sample was tested as per specified standard test methods and the given results pertain only to the sample submitted at the laboratory for testing

Table of results

S/N	Test/Characteristic	Test Method	Result
1.	<i>E. coli</i> ATCC 8739- Average counts (cfu/100ml) of three SaWa before treatment	ISO 9308-1:2014 (MCL/SOP-TM/08)	1.5×10^7
2.	<i>E. coli</i> ATCC 8739- Average counts (cfu/100ml) of three SaWa after treatment		<1.0
3.	<i>E. coli</i> ATCC 8739- Count (cfu/100ml) of the untreated control sample		1.3×10^7

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P O Box 9524

Dar es Salaam

Tel: +255 22 2450206/ +255 22 2450949/ +255 22 2450298

Fax: +255 22 2450959

E-mail: info@tbs.go.tz – Physical Address: Junction Morogoro/Sam Nujoma Rds, Ubungo.

DATE

2024-12-04

TH 08

TBS Code No.

TT 19740

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TEST REPORT**ML/19528/2024**

Note 1: <1.0 cfu/100ml means no growth in 100ml of representative sample subjected to microbiological analysis.

Note2: Time of exposure to sunlight was from 1020hrs to 1500hrs and temperature recorded after every 1hour were 44°C, 48°C, 48°C and 45°C.

4.0 REMARK(S)

The given results are for information only. The sample was subjected to destructive tests.

Reported by:**JAMES MWAKASEGE****Analyst****Verified by:****HILDA MWAKOSYA****Checker****Approved by:****SALUM KINDOLI****Head of Laboratory**



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Fax: +254 (0) 20 6009660
E-Mail: info@kebs.org
Website: www.kebs.org

Laboratory Test Report

KEBS Centre, Popo Road
P.O. Box 54974, 00200 Nairobi
Tel.: +254 (0) 20 6005490, 6005506

Page 1 of 5

REPORT UID: 20250626144528-V2

KEBS Sample Ref. No: BS202509031

Date: 24 April, 2025

1. Description of Sample: SAWA FLEX

2. Sample Submitted by: 4LIFE SOLUTIONS AFRICA SEZ LTD

6. Lab Ref: KEBS/TES/MIC-NAR/M/25

3. Customer Contact: BRENDA

7. Date of Receipt: 4 March, 2025

4. Customers Ref No: KEBS/HQ/TES/PRIVATE

8. Date Analysis Started: 4 March, 2025

9. Sample Submission Form No: 349451

5. Customer's Address:

10. Additional Information provided by the customer:

SAWA - SAFE WATER. SAFE LIFE 6L

11. Acceptance criteria-title and number of specification against which it is tested:

Customer's specifications

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Reduction in E.coli in 4 hours				
I	% reduction in E.coli	% 99.99	99.999Max	ISO 9308-2:2012	
II	E.coli results after purification	cfu/100 ml < 1		ISO 9308-2:2012	1.0
III	E.coli results before purification	cfu/ml 23100		ISO 9308-2:2012	1.0
2.	Reduction in Pseudomonas in 4 hours				
I	% reduction in Pseudomonas	% 99.99	99.999Max	TES/MIC/TM/51*	
II	Pseudomonas results after purification	cfu/100 ml < 1		TES/MIC/TM/51*	1.0
III	Pseudomonas results before purification	cfu/ml 57900		TES/MIC/TM/51*	1.0

* Not SANAS Accredited.

Result(s) Marked "Not SANAS Accredited" in this report is not included in the SANAS Schedule of Accreditation for this laboratory

COMMENTS/REMARKS:

The sample performed as shown

NB: This test report supersedes the earlier Report UID Number: 20250424101509-V1

Rose Kubende - Assistant Manager, Microbiology Laboratory

FOR: DIRECTOR, METROLOGY AND TESTING



24 April, 2025

Date of Issue

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REPORT UID: 20250626144625-V2

KEBS Sample Ref. No: BS202509031

Date: 24 April, 2025

1. Description of Sample: SAWA FLEX

2. Sample Submitted by: 4LIFE SOLUTIONS AFRICA SEZ LTD

6. Lab Ref: KEBS/TES/MIC-NAR/M/25

3. Customer Contact: BRENDA

7. Date of Receipt: 4 March, 2025

4. Customers Ref No: KEBS/HQ/TES/PRIVATE

8. Date Analysis Started: 4 March, 2025

9. Sample Submission Form No: 349451

5. Customer's Address:

10. Additional Information provided by the customer:

SAWA - SAFE WATER. SAFE LIFE 6L

11. Acceptance criteria-title and number of specification against which it is tested:

Customer's specifications

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
3.	Reduction in Salmonella in 4 hours				
I	% reduction in Salmonella	%	99.99	99.999Max	TES/MIC/TM/51*
II	Salmonella results after purification	/100 ml	Not Detected		TES/MIC/TM/51* 1.0
III	Salmonella results before purification	/ml	Detected		TES/MIC/TM/51* 1.0
4.	Reduction in Shigella in 4 hours				
I	% reduction in Shigella	%	99.99	99.999Max	TES/MIC/TM/51*
II	Shigella results after purification	/100 ml	Not Detected		TES/MIC/TM/51* 1.0
III	Shigella results before purification	/ml	Detected		TES/MIC/TM/51* 1.0

* Not SANAS Accredited.

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COMMENTS/REMARKS:

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REPORT UID: 20250626144722-V2

KEBS Sample Ref. No: BS202509031

Date: 24 April, 2025

1. Description of Sample: SAWA FLEX

2. Sample Submitted by: 4LIFE SOLUTIONS AFRICA SEZ LTD

6. Lab Ref: KEBS/TES/MIC-NAR/M/25

3. Customer Contact: BRENDA

7. Date of Receipt: 4 March, 2025

4. Customers Ref No: KEBS/HQ/TES/PRIVATE

8. Date Analysis Started: 4 March, 2025

9. Sample Submission Form No: 349451

5. Customer's Address:

10. Additional Information provided by the customer:

SAWA - SAFE WATER. SAFE LIFE 6L

11. Acceptance criteria-title and number of specification against which it is tested:

Customer's specifications

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
5.	Reduction in Staphylococcus in 4 hours				
I	% reduction in Staphylococcus	%	99.99	99.999Max	TES/MIC/TM/51*
II	Staphylococcus results after purification	cfu/100 ml	< 1		TES/MIC/TM/51* 1.0
III	Staphylococcus results before purification	cfu/ml	12800		TES/MIC/TM/51* 1.0
6.	Reduction in Streptococcus F. in 4 hours				
I	% reduction in Streptococcus Faecalis	%	99.99	99.999Max	TES/MIC/TM/51*
II	Streptococcus Faecalis results after purification	cfu/100 ml	< 1		TES/MIC/TM/51* 1.0
III	Streptococcus Faecalis results before purification	cfu/ml	68700		TES/MIC/TM/51* 1.0

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COMMENTS/REMARKS:

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REPORT UID: 20250626144822-V2

KEBS Sample Ref. No: BS202509031

Date: 24 April, 2025

1. Description of Sample: SAWA FLEX

2. Sample Submitted by: 4LIFE SOLUTIONS AFRICA SEZ LTD

6. Lab Ref: KEBS/TES/MIC-NAR/M/25

3. Customer Contact: BRENDA

7. Date of Receipt: 4 March, 2025

4. Customers Ref No: KEBS/HQ/TES/PRIVATE

8. Date Analysis Started: 4 March, 2025

9. Sample Submission Form No: 349451

5. Customer's Address:

10. Additional Information provided by the customer:

SAWA - SAFE WATER. SAFE LIFE 6L

11. Acceptance criteria-title and number of specification against which it is tested:

Customer's specifications

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
7.	Reduction in Sulphite R.A in 4 hours				
I	% reduction in Sulphite Reducing Anaerobes	% 99.99	99.999Max	TES/MIC/TM/51*	
II	Sulphite R.A results after purification	cfu/100 ml < 1		TES/MIC/TM/51*	1.0
III	Sulphite R.A results before purification	cfu/ ml 3900		TES/MIC/TM/51*	1.0
8.	Reduction in Total Coliform in 4 hours				
I	% reduction in Total Coliforms	% 99.99	99.999Max	TES/MIC/TM/13	
II	Total Coliforms results after purification	cfu/100 ml < 1		TES/MIC/TM/13	1.0
III	Total Coliforms results before purification	cfu/ml 72700		TES/MIC/TM/13	1.0

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REPORT UID: 20250626144919-V2

KEBS Sample Ref. No: BS202509031

Date: 24 April, 2025

1. Description of Sample: SAWA FLEX

2. Sample Submitted by: 4LIFE SOLUTIONS AFRICA SEZ LTD

6. Lab Ref: KEBS/TES/MIC-NAR/M/25

3. Customer Contact: BRENDA

7. Date of Receipt: 4 March, 2025

4. Customers Ref No: KEBS/HQ/TES/PRIVATE

8. Date Analysis Started: 4 March, 2025

9. Sample Submission Form No: 349451

5. Customer's Address:

10. Additional Information provided by the customer:
SAWA - SAFE WATER. SAFE LIFE 6L

11. Acceptance criteria-title and number of specification against which it is tested:
Customer's specifications

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT					
No.	Parameters	Results	Requirements	Test Method No.	LOD
9.	Reduction in Total plate count in 4 hours				
I	% reduction in TPC @ 22°C	%	99.99	99.99Min	ISO 6222
II	% reduction in TPC @ 37°C	%	99.99		ISO 6222
III	TPC results after purification @ 22°C	cfu/ml	< 1	ISO 6222	1.0
IV	TPC results after purification @ 37°C	cfu/ml cfu/g	< 1	ISO 6222	
V	TPC results before purification @ 22°C	cfu/ml	154000	ISO 6222	1.0
VI	TPC results before purification @ 37°C	cfu/ml cfu/g	163000	ISO 6222	

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