

6.8 Tanzania Bureau of Standards: Certificate of Analysis



TANZANIA BUREAU OF STANDARDS — TEST HOUSE

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DATE
2021-01-29

TH 08
TBS Code No.
TT 8582

Physical Address: Junction Morogoro/Sam Nujoma Rds, Ubungo. Page 1 of 2

Member of the International Organization for Standardization (ISO), Codex Alimentarius Commission (WHO/FAO), Agent for ISO and other National Standards Bodies

TEST REPORT No:
ML/00143/2021

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 The report shall not be published, other than in full, without prior written approval of the Director General, TBS.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: PG CONSULTING LTD
Client address: DSM, DAR-ES-SALAAM
Sample: 3 SAMPLES OF WATER PURIFICATION SYSTEM (SOLARSACK)
Site and position sampled: PG CONSULTING LTD
Sampling plan: UNKNOWN
Date of sampling: 2021-01-06
Date received: 2021-01-06
Date tested: 2021-01-09
Specification: 2021-01-29
Test method: CUSTOMER SPECIFICATIONS

1.0 INTRODUCTION AS INDICATED IN THE TABLE OF RESULTS

One sample of 3 pieces of water purification unit (**solarsack**) was submitted at TBS Microbiology laboratory for testing its performance. The sample was given TBS Code No. **TT 8582**.

2.0 TEST RESULTS

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

Results of performance test

Microorganism	Highest treatment concentration	pre- concentration	Post-treatment concentration after 24 hours	Reduction	
				LRV	%
Bacteria	Total viable count (<i>E. coli</i>)	1.49×10^6 cfu/ ml	$< 1.0 \times 10^0$ cfu/ ml	6.2	>99.9999
	<i>E. coli</i>	6.0×10^6 cfu/100 ml	$< 1.0 \times 10^0$ cfu/100 ml	5.8	>99.999

Note 1: LRV means Log Reduction Value, given; $\text{Log}_{10}(A/B)$,
where **A** is the number of viable microorganisms before treatment
B is the number of viable microorganisms after treatment

Note 1: Percent reduction is given by; $P = (1 - 10^{-L}) \times 100$
Where; **P** is the percent reduction
L is the log reduction



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3.0 REMARKS

1. The purification unit (**solarsack**) killed completely the microorganism used for performance test.
2. The given results are for information only.

Reported by:

Verified by:

Approved by:



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 Analyst

SALUM KINDOLI
 Head of Laboratory

J oseph Makene
 Testing Manager