

6.7 Federal Ministry of Water Resources: Certificate of Analysis



FEDERAL MINISTRY OF WATER RESOURCES

DEPARTMENT OF WATER QUALITY CONTROL AND SANITATION
NATIONAL WATER QUALITY REFERENCE LABORATORY, LAGOS.

Ref.:

Date: 13/10/2020

Analysis Result

Ref: FMWR/LAWQRL/AR/20/009

Sample Type: Borehole Contaminated with Toilet Water and SolarSack Treated Sample

Client: SWISSMARKK INTEGRATED LIMITED

Product: SOLARSACK PURIFICATION SYSTEM

Date Analysed: 2nd/3rd and 6th/7th October, 2020

Parameter	Analytical Method	<i>E.coli</i> Spiked Borehole sample	SolarSack Treated Sample	Log ₁₀ Reduction	Exposure time	Water Source	Weather Condition	Test Location
<i>E.coli</i> (cfu/100mL)	APHA 9222	1.6x10 ¹	<1x10 ⁰	2.2	4Hours	Borehole contaminated with toilet water	Sunny	Ikeja, Lagos State
Total Coliform (cfu/100ml)	APHA 9222	4x10 ²	<1x10 ⁰	2.6	4Hours	Borehole contaminated with toilet water	Sunny	Ikeja, Lagos State
<i>E.coli</i> (cfu/100mL)	APHA 9222	1.4x10 ³	<1x10 ⁰	3.1	4Hours	Borehole contaminated with toilet water	Sunny	Kano, Kano State
Total Coliform (cfu/100ml)	APHA 9222	3.6x10 ³	1x10 ⁰	3.6	4Hours	Borehole contaminated with toilet water	Sunny	Kano, Kano State

• APHA = American Public Health Association (Standard Methods For The Examination of Water and Wastewater, 21st Edition 2005)

Comment: The SolarSack was able to purify the Total coliform and *E.coli* containing borehole samples and the solar treated water in Ikeja, Lagos State (South-Western Nigeria) and Kano, Kano State (North-Western Nigeria) are potable.



LABORATORY MANAGER

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