

TEST REPORT

Report No: AWRCL/PRTR/ 17525/20-21

Date: 13.07.2020

CUSTOMER DETAILS	SAMPLE DETAILS	TEST DETAILS
Name & Address Kind Attn: Mr.B.R.K.Mishra M/s Logicwater India, Plot No 935 A. Nitikhand 1, Indirapuram,Ghaziabad. 201014. UP India. M +91-9711505086	Sample received: 08.07.2020	Method: As agreed between the Testing Laboratory and the customer
	Sample code no: AWRCL/17525/20-21	
	Sample Description: Hypoclean Disinfectant generator	
	Sample Quantity for Testing: 1 No	
	Submitted by: M/s Triphase Technologies Pvt.ltd	
	Date of Analysis started: 11.07.2020	
	Date of Analysis Completed: 13.07.2020	
	Subcontract: Not Applicable	
	Sample condition when received : Intact	

EXECUTIVE SUMMARY:

One unit of disinfectant generator marketed by M/s Logic Water India was assessed for its disinfectant production followed by efficacy of disinfectant generated to reduce microbial contamination on surfaces in 1 minute of exposure. Ceramic tile and stainless steel plate surfaces were used for smearing the microbial species namely E.coli bacterium and MS2 bacteriophage - a surrogate virus separately. 1 ml of disinfectant with 25 ppm of free available chlorine was capable of reducing tested microorganisms on both surfaces in 1 minute of exposure by at least 99.9998%. When the disinfectant solution was applied on a white glazed tile and retained for 30 minutes, there was no discoloration or any physical change of the tile was observed.

PICTURE OF THE TEST PRODUCT



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We undertake analytical job for water, food, biocidal resins, detergents & sanitizers and soil. We carry out performance evaluation of drinking water treatment units as per NSF/ANSI specifications. Based on performance we can arrange for certification from IAPMO – USA

Note:

1. The results pertain only to the tested samples and applicable parameters.
2. Samples will be disposed after 15 days from the issue of test certificate unless otherwise specified, in case of bacteriological tests, the samples will be disposed after 7 days itself from the date of issuing the certificate.
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TEST DATA: Microbial Reduction Performance on Ceramic Tile

Name of Test Organism	AWRTCL/17525/20-21 Disinfectant Solution		% Reduction
	Before Treatment Microbial counts	After treatment Microbial counts	
BACTERIAL CULTURES			
E.coli MTCC68	7.0x10⁶ cfu/swab	20 cfuSwab	99.999
MS2 Phage ATCC15597B1	6.0x10⁶ cfu/swab	≤10 pfu/swab	≥99.999

Cfu: Colony Forming Units; pfu : Plaque forming units, ≤10cfu / Swab = Not detected, ≤10pfu / Swab = Not detected

TEST DATA: Microbial Reduction Performance on Stainless Steel

Name of Test Organism	AWRTCL/17525/20-21 Disinfectant Solution		% Reduction
	Before Treatment Microbial counts	After treatment Microbial counts	
BACTERIAL CULTURES			
E.coli MTCC68	6.0x10⁶ cfu/swab	≤10 cfu/swab	≥99.999
MS2 Phage ATCC15597B1	6.0x10⁶ cfu/swab	≤10 pfu/swab	≥99.999

Cfu: Colony Forming Units; pfu : Plaque forming units, ≤10cfu / Swab = Not detected, ≤10pfu / Swab = Not detected

METHODOLOGY: 24 hr broth culture of each culture was smeared with 1 ml on two portions of Ceramic tile surface and Stainless steel surfaces. They were allowed to air dry for 10 minutes. Afterwards swabs were taken from the surfaces by using 0.9% saline solution. On the second smeared surfaces, 1 ml of Direct Disinfectant solution sample was applied and contents were allowed to stay for 1 minute. Later swabs were taken by using 0.9% saline solution. The samples were serially diluted and plated on to a selective microbial growth media. Incubation was done at 37⁰C/24-48 hrs for growth of microbial cultures.

Generation of disinfectant solution as Chlorine: 1Liter of RO water was used for dissolving 25 gr of Sodium Chloride (common salt). The prepared water was poured in the Hypoclean product and switched ON. The product generated dissolved chlorine solution in 3 minutes and turned off automatically.



Dr S.MURALIDHARA RAO
Head – Laboratory

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