

TEST REPORT

Report No: AWRTEL/PRTR/ 18452 /21-22

Date: 14.04.2021

CUSTOMER DETAILS	SAMPLE DETAILS	TEST DETAILS
Name & Address Kind Attn: Mr.Neeraj Dogra M/s Unimatec Chemicals Europe GmbH	Sample received: 06.04.2021	Method: As agreed between the Testing Laboratory and the customer
	Sample code no: AWRTEL/18452/21-22	
	Sample Description: Paany! water filter	
	Sample Quantity for Testing: 1 Product	
	Submitted by: M/s Unimatec Chemicals Europe GmbH	
	Date of Analysis started : 07.04.2021	
	Date of Analysis Completed : 14.04.2021	
	Subcontract : Not Applicable	
	Sample condition when received: Intact	

EXECUTIVE SUMMARY: One product of Microfiltration Membrane (NOK corporation) and carbon block based water filter (squeeze bottle) by the brand name Paany! Owned by M/s Unimatec Chemicals Europe GmbH, was evaluated for its efficacy of reducing microbiological contamination and Chlorine reduction. The tested product was found to be very effective for the intended usage. From the present study, the microbial reduction of $\geq 99.9999\%$ was achieved with E.coli (bacterium). $\geq 99.998\%$ reduction of 3 micron microspheres (artificial Cysts) was also achieved. The chlorine contaminant got reduced $\geq 95.5\%$. The product meets the microbial reduction as per USEPA norms, complies to bacteriological quality of Drinking water as per IS10500:2021 specification. Also Chlorine reduction meets the requirement of NSF/ANSI 42 standard.

I. Test Data: Microbial Reduction @ Flow rate of 700ml/min

Test Parameters	AWRTEL/18452/21-22 DESI PAANY Squeeze Bottle Filter		% Reduction	ACCEPTABLE NORMS
	Microbial counts Before Treatment	Microbial counts After treatment		
E.coli MTCC68 (bacterium)	Sample – 1 : 6×10^5 cfu/ ml	No Viable Counts/ 100ml	≥ 99.9999	99.9999% (USEPA)
	Sample – 2 : 7×10^5 cfu/ ml			
	Average 6.5×10^5 cfu/ ml			
3 μ Microspheres (artificial cysts)	1.12×10^7 Spheres/ Liter	<160 Spheres/ Liters	≥ 99.9985	99.9% (USEPA)
Total Coliforms	>1600 MPN/100ml	Not detected/100ml	--	Shall not be detected in 100 ml sample as per IS10500:2012 Drinking water Specification
E.coli	Present/100 ml	Absent/100ml	--	

Cfu: Colony Forming Units, <160/L= Below detection limit USEPA : United States Environmental Protection Agency

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Note:

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- 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 CONDITIONS:

Filtration Flow rate: 700 ml/min

Samples were taken after 10 liters of filtration. For Microbial reduction and the chlorine reduction, separate cartridges were used.

General test water composition:

pH: 7.32, TDS mg/L: 389, Turbidity NTU: 1.1, TOC mg/L: 1.0, Temperature: 23°C (E.coli & 3 micron spheres)

pH: 7.324, TDS mg/L: 378, Turbidity NTU: 1.0, TOC mg/L: 1.0, Temperature: 23°C (Total Coliforms & E.coli Test)

II. Test Data: Chlorine Reduction @ Flow rate of 720ml/min

Volume of Filtration (Liters)	AWRTCL/18452/21-22 DESI PAANY Squeeze Bottle Filter		ACCEPTABLE NORM
	Input water Chlorine mg/L	Output water Chlorine mg/L	
10	2.2	<0.1 (≥ 95.5% reduction)	Test system should reduce at least 50% of chlorine from the influent water as per NSF/ANSI 42 standard. .

<0.1 mg/L= Below detection limit

PRODUCT PICTURE

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(Signature)
Dr S.MURALIDHARA RAO
Head – Laboratory

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