

Test Report

NBF26-0009878-01

Date: 2026-06-15

Client Name: Tapure UK Ltd

Client Address: 73 Southowram Bank, Halifax , West Yorkshire, UK, HX3 9XL

Sample Name: Reverse Osmosis Water Filtration System

Sample Batch No.: /

Production Date: /

Manufacturer: _____ /

Sample other information: RO3500

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS reference No.: NBP26-002719

Date of Sample Received: 2026-04-17

Testing Period: 2026-04-17 ~ 2026-06-15

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).



Scan to see the report



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Date: 2026-06-15

Sample Description:

Sample No.	SGS Sample ID	Description
0001	NBF26-0009878-0001	Reverse Osmosis Water Filtration System, Quantity: 1 set

Test Requested:

Selected test(s) as requested by applicant:

Test the removal rate of Lead pH 6.5, Chlorine, Fluoride, Microplastics particles (3 µm), Perfluorooctane Sulfonate (PFOS), Perfluorooctanoic acid (PFOA), Total coliforms, *Escherichia coli* bacteriophage MS2 at the start-up of the service life.

Test Strain(s):

Escherichia coli ATCC 25922

Escherichia coli bacteriophage MS2 ATCC 15597-B1—Coliphage

Escherichia coli ATCC 700891—Host bacteria

Test Method:

Lead pH 6.5, Fluoride, Perfluorooctane Sulfonate (PFOS), Perfluorooctanoic acid (PFOA), Microplastics particles (3 µm) Challenge Testing: Refer to NSF/ANSI 53-2024 Drinking Water Treatment Units-Health Effects

Chlorine Challenge Testing: Refer to NSF/ANSI 42-2023: Drinking Water Treatment Units - Aesthetic Effects

Total coliforms, *Escherichia coli* bacteriophage MS2 Challenge Testing: Refer to Ministry of Health of the People's Republic of China Standards for Drinking Water Quality Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water-Reverse Osmosis Device

Total coliforms: GB/T 5750.12-2023 Standard examination methods for drinking water – Part 12:

Microbiological indices

Lead pH 6.5: USEPA 200.8 Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma- Mass Spectrometry

Chlorine: GB/T 5750.11-2023 Standard examination methods for drinking water — Part 11: Disinfectants indices

Fluoride: USEPA 300.0 Determination of Inorganic Anions by Ion Chromatography

Perfluorooctane Sulfonate (PFOS), Perfluorooctanoic acid (PFOA): Refer to USEPA 537.1-2020

Determination of Selected Per-and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS). Version 2.0. United States Environmental Protection Agency

Escherichia coli bacteriophage MS2: Refer to EPA method 1602 Male-specific (F+) and somatic coliphage in water by single agar layer (SAL) procedure

Microplastics particles (3 µm): ASTM D5127-13 (2018) Stand Guide for Ultra-Pure Water Used in the Electronics and Semiconductor Industries.

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Date: 2026-06-15

Test Result(s):

NSF/ANSI 42-2023: Drinking Water Treatment Units - Aesthetic Effects						
Testing Point	Test item(s)	Unit(s)	Influent Challenge Concentration	Product Water Concentration	*Reduction (%)	Requirement
						Reduction Requirement (NSF/ANSI 42)
Start-up	Chlorine	mg/L	1.92	<0.01	>99.47	≥50
NSF/ANSI 53-2024 Drinking Water Treatment Units-Health Effects						
Testing Point	Test item(s)	Unit(s)	Influent Challenge Concentration	Product Water Concentration	*Reduction (%)	Requirement
						Maximum Product Water Concentration (NSF 53)
Start-up	Fluoride	mg/L	9.253	0.217	97.65	1.0
Start-up	Lead pH 6.5	mg/L	0.1663	<0.0002	>99.87	0.005
Start-up	#Microplastics particles (3 μm)	counts/mL	32283	2	99.99	Reduction requirement ≥ 99.95%
Start-up	Perfluorooctane Sulfonate (PFOS)	mg/L	0.001049	<0.000004	>99.61	0.00002
Start-up	Perfluorooctanoic acid (PFOA)	mg/L	0.000807	0.000004	99.50	
Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water-Reverse Osmosis Device						
Testing Point	Test item(s)	Unit(s)	Influent Challenge Concentration	Product Water Concentration	*Reduction (%)	Requirement
						Sanitary Standard for Hygienic Safety and Function Evaluation on Treatment Devices of Drinking Water-Reverse Osmosis Device
Start-up	Total coliforms	CFU/100mL	7.9×10 ⁵	<1	>99.99	/
Start-up	<i>Escherichia coli</i> bacteriophage MS2	PFU/mL	3.6×10 ⁵	<1	>99.99	/

Remark:

- *Reduction (%) = (The test result of Influent Challenge Concentration - The test result of Product Water Concentration) / The test result of Influent Challenge Concentration × 100%.
- Microplastics particles (3 μm) spiked substance: 3 μm polystyrene plastic microspheres
- #Test items were carried out by SAE Technologies Development (Dongguan) Co., Ltd. Material Science Lab.
- The flow rate is 1.6 L/min.

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Sample photo:



SGS authenticate the photo on original report only

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