

Test Report

NBF24-0010999-01

Date: 2024-07-16

Client Name: WIN-WIN INNOVATION CORPORATION

Client Address: INDIANA 5534 Saint Joe Road Fort Wayne INDIANA 46835

Sample Name: ECOVIVA WP-RO-200G

Sample Batch No.: /

Production Date: /

Manufacturer: Ecoviva

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.

Date of Sample Received: 2024-06-24

Testing Period: 2024-06-24 ~ 2024-07-16

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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Verification:
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Sample Description:

Sample No.	SGS Sample ID	Description
1	NBF24-0010999-0001	ECOVIVA WP-RO-200G , Quantity: 1 set

Test Requested:

Selected test(s) as requested by applicant:

Removal rates of Turbidity, Total dissolved solids (TDS), Hardness, Arsenic (As), Mercury (Hg), Cadmium (Cd), Lead (Pb), Copper (Cu), Chromium, Dissociate chlorine residue, Fluoride, Perfluorooctane Sulfonate, Perfluorooctanoic acid, Total coliforms, Dimethoate at the start point of operating life.

Test Strain(s):

Escherichia coli CICC 10389

Test Method:

Challenge Testing (Turbidity, Total dissolved solids (TDS), Arsenic (As), Mercury (Hg), Cadmium (Cd), Lead (Pb), Copper (Cu), Chromium, Fluoride, Perfluorooctane Sulfonate, Perfluorooctanoic acid): Refer to NSF/ANSI 58-2022 Reverse Osmosis Drinking Water Treatment Systems

Challenge Testing (Dissociate chlorine residue): Refer to NSF/ANSI 42-2020: Drinking Water Treatment Units - Aesthetic Effects

Challenge Testing (Hardness, Total coliforms, Dimethoate): 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

Turbidity, Total dissolved solids (TDS), Hardness: GB/T 5750.4-2023 Standard examination methods for drinking water – Part 4: Organoleptic and physical indices

Arsenic (As), Mercury (Hg), Cadmium (Cd), Lead (Pb), Chromium, Copper (Cu): USEPA 200.8

Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma- Mass Spectrometry

Dissociate chlorine residue: 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 ed perfluorinated alkyl acids in drinking water by solid phase extraction and liquid chromatography/tandem mass spectrometry

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

Microbiological indices

Dimethoate: GB/T 23214-2008 Determination of 450 pesticides and related chemical residues in drinking water -LC-MS-MS-method

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Test Result(s):
Table 1

NO	Test item(s)	Unit(s)	Test method(s)	Test result(s)		*Removal rate(s)%	Requirement(s)
				Influent spiked water	Effluent filtrated water		Maximum effluent concentration NSF/ANSI 58 (mg/L)
1	Turbidity	NTU	GB/T 5750.4-2023	11.3	0.15	98.67	0.5
2	Total dissolved solids (TDS)	mg/L	GB/T 5750.4-2023	801	18	97.75	187
3	Fluoride	mg/L	EPA 300.0	9.168	0.247	97.31	1.5
4	Arsenic (As)	mg/L	EPA 200.8	0.3333	0.0002	99.94	0.010
5	Cadmium (Cd)	mg/L	EPA 200.8	0.0331	<0.0002	>99.40	0.005
6	Chromium	mg/L	EPA 200.8	0.352	<0.001	>99.72	0.1
7	Lead (Pb)	mg/L	EPA 200.8	0.1744	<0.0002	>99.89	0.005
8	Mercury (Hg)	mg/L	EPA 200.8	0.0099	<0.0002	>97.98	0.002
9	Copper (Cu)	mg/L	EPA 200.8	3.261	<0.005	>99.85	1.3
10	#Perfluorooctanoic acid (PFOA), and Perfluorooctane Sulfonate (PFOS)	mg/L	EPA 537.1	0.00467	<0.00002	>99.57	0.00002

Table 2

NO	Test item(s)	Unit(s)	Test method(s)	Test result(s)		*Removal rate(s)%	Requirement(s)
				Influent spiked water	Effluent filtrated water		Percent reduction requirement NSF/ANSI 42 (%)
1	Dissociate chlorine residue	mg/L	GB/T 5750.11-2023	1.97	<0.01	>99.49	≥50.00

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Table 3

NO	Test item(s)	Unit(s)	Test method(s)	Test result(s)		*Removal rate(s)%	Requirement(s)
				Influent spiked water	Effluent filtrated water		
1	Hardness	mg/L	GB/T 5750.4-2023	1325.2	3.0	99.77	/
2	Total coliforms	CFU/100mL	GB/T 5750.12-2023	7.0×10 ⁵	<1	>99.99	/
3	#Dimethoate	mg/L	GB/T 23214-2008	0.5040	<0.001	>99.80	/

Remark:

- *Removal rate (%) = (test result of Influent spiked water - test result of Effluent filtrated water)/ test result of Influent spiked water ×100%
- # Test items were carried out by SGS-CSTC Standards Technical Services (Shanghai) Co.,Ltd.



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Sample photo:



NBF24-0010999-0001

SGS authenticate the photo on original report only

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Within the territory of the People's Republic of China, this test report shall only be used for scientific research, technical research and development, teaching, and internal quality control.

*** End***

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