

**Test Report** NBF23-0013558-01 Date: 2023-12-01

West Ryder Technology LLC Client Name:

Client Address: 251 Little Falls Drive Wilmington, DE 19808-1674

Sample Name: Reverse Osmosis Water Purifie

Sample Batch No.:

Manufacturer: West Ryder Technology LLC

251 Little Falls Drive Wilmington, DE 19808-1674 Manufacturer Address:

Trade Mark: Airthereal Main Model: Lite3

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: 2023-11-10

**Testing Period:** 2023-11-10 ~ 2023-12-01

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).





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**Test Report** NBF23-0013558-01 **Date**: 2023-12-01

**Sample Description:** 

Sample No.	SGS Sample ID	Description				
1	NBF23-0013558-0001	Reverse Osmosis Water Purifie, Quantity: 2 sets				

#### **Test Requested:**

Selected test(s) as requested by applicant:

Removal rates of Turbidity, Total dissolved solids (TDS), Arsenic (As), Mercury (Hg), Cadmium (Cd), Lead (Pb), Copper (Cu), Barium (Ba), Selenium (Se), Chromium, Dissociate chlorine residue, Nitrate (as N), Fluoride, Chlorate (ClO<sub>3</sub><sup>-</sup>), Perfluorooctane Sulfonate, Perfluorooctanoic acid, Total coliforms at the start point of operating life.

### Test Strain(s):

Escherichia coli CICC 10389

#### **Test Method:**

Challenge Testing: Refer to NSF/ANSI 58-2020 Reverse Osmosis Drinking Water Treatment Systems & NSF/ANSI 42-2020: Drinking Water Treatment Units - Aesthetic Effects & 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): 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), Copper (Cu), Barium (Ba), Selenium (Se), Chromium (Cr): 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

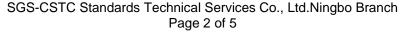
Nitrate (as N), Fluoride, Chlorate (CIO<sub>3</sub><sup>-</sup>): USEPA 300.0 Determination of Inorganic Anions by Ion Chromatography

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









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# **Test Report**

NBF23-0013558-01

Test Result(s): Table 1

	l able 1						
	Test item(s)	Unit(s)	Test method(s)	Test result(s)			Requirement(s)
NO				Influent spiked water	Effluent filtrated water	*Removal rate(s)%	Maximum effluent concentration (mg/L) NSF/ANSI 58
1	Turbidity	NTU	GB/T 5750.4- 2023	11.3	<0.2	>98.23	/
2	Total dissolved solids (TDS)	mg/L	GB/T 5750.4- 2023	752	19	97.47	/
3	#Nitrate (as N)	mg/L	EPA 300.0	33.586	0.041	99.88	10.0
4	#Fluoride	mg/L	EPA 300.0	8.70	<0.01	>99.88	1.5
5	Arsenic (As)	mg/L	EPA 200.8	0.3456	<0.0002	>99.94	0.010
6	Cadmium (Cd)	mg/L	EPA 200.8	0.0287	<0.0005	>98.25	0.005
7	Chromium	mg/L	EPA 200.8	0.313	<0.001	>99.68	0.1
8	Lead (Pb)	mg/L	EPA 200.8	0.1498	<0.0002	>99.86	0.005
9	Mercury (Hg)	mg/L	EPA 200.8	0.0099	<0.0002	>97.97	0.002
10	Copper (Cu)	mg/L	EPA 200.8	3.237	<0.005	>99.84	1.3
11	Barium (Ba)	mg/L	EPA 200.8	10.358	<0.005	>99.95	2.0
12	Selenium(Se)	mg/L	EPA 200.8	0.111	<0.001	>99.09	0.05
13	#Chlorate (CIO <sub>3</sub> <sup>-</sup> )	mg/L	EPA 300.0	0.11	<0.01	>90.90	/
14	Total coliforms	CFU/100mL	GB/T 5750.12- 2023	4.8×10 <sup>5</sup>	<1	>99.99	/
15	#Perfluorooctane Sulfonate (PFOS)	mg/L	EPA 537.1	0.00080	<0.00001	>98.75	0.00007
16	#Perfluorooctanoic acid (PFOA)	mg/L	EPA 537.1	0.00055	<0.00001	>98.18	0.00007

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Date: 2023-12-01



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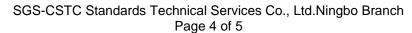
## Table 2

NO	Test item(s)	Unit(s)	Test method(s)	Test result(s)			Requirement(s)
				Influent spiked water	Effluent filtrated water	*Removal rate(s)%	Percent reduction requirement (%) NSF/ANSI 42
1	Dissociate chlorine residue	mg/L	GB/T 5750.11- 2023	1.94	<0.01	>99.48	≥50.00

#### Remark:

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







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# **Test Report**

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## Sample photo:



SGS authenticate the photo on original report only

### Attention:

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