

PURE BY AIR

AIR-TO-TABLE

WATER QUALITY & SAFETY

Independent laboratory analysis
of atmospheric drinking water



EXTRACT

FILTER

REGENERATE

FROM AIR. THROUGH SCIENCE. TO WATER.

LABORATORY EVIDENCE / CHINA + INDONESIA

CLEAN WATER, MEASURED.

Two independent laboratory reports provide encouraging evidence of water quality in the specific atmospheric drinking-water samples tested. The original test documents are included at the end of this publication.

01

INDONESIA

Local laboratory analysis

02

CHINA

SGS-CSTC analysis

SELECTED RESULTS

PARAMETER	SAMPLE 01	SAMPLE 02
Total coliforms	0 / 100 mL	Not detected
E. coli	0 / 100 mL	Not detected
pH	7.40	6.52
Turbidity	0.48 NTU	0.90 NTU
Total dissolved solids	43 mg/L	Not reported
Arsenic	< 0.001 mg/L	Not reported
Nitrate	< 0.10 mg/L	Not detected

Results reflect the supplied reports, which used different methods and test panels. "Not detected" is method-dependent and does not mean absolute absence.

THREE GENERATIONS OF WATER

Pure by Air transforms atmospheric humidity into drinking water through a controlled, multi-stage process designed around extraction, treatment and water conditioning.

01 EXTRACT

Humid air is cooled below its dew point, allowing atmospheric moisture to condense into water.

02 FILTER

Collected water passes through the installed treatment configuration to address relevant water-quality risks.

03 REGENERATE

The water is conditioned for its intended drinking-water profile, including mineralisation where configured.

SAFETY IS A SYSTEM

Safe water also depends on hygienic design, filter changes, protected storage, cleaning, maintenance and ongoing testing at each installation.

THE EVIDENCE, WITHOUT THE HYPE.

The two sample reports showed no detected E. coli or total coliforms. These are important indicators of microbiological quality for the water tested.

SAMPLE 01 / INDONESIA

The supplied laboratory report states conformity with the cited Indonesian drinking-water requirements for the parameters analysed. The precise sample collection city has not been independently confirmed.

SAMPLE 02 / CHINA

The supplied SGS excerpt identifies the testing laboratory in Shanghai. It does not confirm where the sample was collected. Only page 2 of the three-page SGS report was supplied.

WHAT THIS DOES — AND DOES NOT — PROVE

These findings describe specific submitted samples, not a certification of every Pure by Air machine or a guarantee under all operating conditions. Current drinking-water compliance must be assessed using complete, applicable tests for each deployment.

SUPPORTING DOCUMENTATION

Appendix A: Indonesian laboratory report (original). Appendix B: SGS-CSTC report excerpt (as supplied). Both are reproduced without alteration.

REPORT OF ANALYSIS

Sample Identification : **Air Dispenser (Air Bersumber dari Udara Menjadi Air)**
Date of Sampling : June 17, 2021
Time of Sampling : 11.30 WIB
Date of Analysis : June 17, 2021 to June 30, 2021

Parameter	Unit	Test Results	Threshold Limit Value	Methods *) Part Number
Parameter I				
a). Microbiological				
Total Coliform	Colony / 100 mL	0	0	9222 B
<i>Escherichia coli</i>	Colony / 100 mL	0	0	9222 G
b). Inorganic Chemical				
Arsenic	mg/L	< 0.001	0.01	3114 C
Fluoride	mg/L	0.03	1.5	4500 F-D
Chromium Total	mg/L	< 0.01	0.05	3120 B, 3030 E
Cadmium	mg/L	< 0.001	0.003	3113 B
Nitrite as NO ₂ ⁻	mg/L	< 0.003	3	4500 NO ₂ ⁻ -B
Nitrate as NO ₃ ⁻	mg/L	< 0.10	50	4500 NO ₃ ⁻ -B
Cyanide	mg/L	< 0.01	0.07	4500 CN ⁻ -E
Selenium	mg/L	< 0.001	0.01	3114 C
Parameter II				
a). Physical				
Odour *	-	Odourless	Odourless	PO/LK/156 (Organoleptic)
Colour	TCU	< 1.5	15	2120 C
Total Dissolved Solid	mg/L	43	500	PO/LK/40 (Electrometric)
Turbidity on site	NTU	0.48	5	2130 B
Taste *	-	Tasteless	Tasteless	PO/LK/156 (Organoleptic)
Temperature on site	C	36.4	Ambient Temp. ± 3 °C	2550 B
b). Chemical				
Aluminium	mg/L	< 0.04	0.2	3120 B
Iron	mg/L	< 0.02	0.3	3120 B
Total Hardness as CaCO ₃	mg/L	14	500	2340 B
Chloride	mg/L	9.0	250	4500 Cl-D
Manganese	mg/L	< 0.01	0.4	3120 B
pH on site	-	7.40	6.5 – 8.5	4500 H ⁺ -B
Zinc	mg/L	< 0.01	3	3120 B
Sulfate	mg/L	< 0.6	250	SNI 06-6989.20:2009
Copper	mg/L	< 0.01	2	3120 B
Ammonia	mg/L	1.01	1.5	4500 NH ₃ -F

Parameter I is the parameter which have direct connection with human healthy
Parameter II is the parameter which have indirect connection with human healthy
*) Standard Methods, 23rd Edition 2017, APHA-AWWA-WEF

*) Excluded the scope of accreditation KAN
< = Less than the detection limit indicated

Conclusion

Based on parameter analysis it is concluded that the sample is conform with Republic of Indonesia Health Minister Decree No.492/MENKES/PER/IV/2010

Note :

Based on attachment II of the regulation Health Minister Decree No. : 492/MENKES/PER/IV/2010, all parameter above must be tested and reported according to requirements for Drinking Water Quality and ongoing quality monitoring.
For another parameter of drinking water quality which are not mentioned in this test result, it should be tested especially if there is any suspected or indication of pollution substance i.e. : Microbiological, Inorganic chemical, Organic Chemical, Pesticides Compound and Radioactivity, as per attached in appendix I of the regulation



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APPENDIX B | SGS laboratory excerpt

Supplied image: page 2 of 3 only. Other pages were not provided.

Test Results:

Microbial Test(s)

Code	Test Item(s)	Unit(s)	Test Method(s)	Test Result(s) 0001	Limit	Comment
1	Total coliforms	MPN/100 mL	GB/T 5750.12-2023 5.1	ND	Absence	Pass
2	Escherichia coli	MPN/100 mL	GB/T 5750.12-2023 7.1	ND	Absence	Pass

Chemical Test(s)

Code	Test Item(s)	Unit(s)	Test Method(s)	Test Result(s) 0001	LOQ	Limit	Comment
3	Calcium(Ca)	mg/L	GB/T 5750.6-2023 4.4	ND	0.011	-	-
4	Magnesium (Mg)	mg/L	GB/T 5750.6-2023 4.4	ND	0.013	-	-
5	Ammonia(as N)	mg/L	GB/T 5750.5-2023 11.3	<0.025	-	-	-
6	Chloride (as Cl)	mg/L	APHA 4110B IC	ND	0.005	-	-
7	Nitrate	mg/L	APHA 4110B IC	ND	0.02	-	-
8	Nitrite	mg/L	APHA 4110B IC	ND	0.01	-	-
9	Conductivity (20°C)	µmhos/cm	APHA 2510B	1.8	-	-	-
10	pH	-	GB/T 5750.4-2023 8.1	6.52	-	6.5~8.5	Pass
11	Colority	°	GB/T 5750.4-2023 4.1	<5	5	≤15	Pass
12	Odor and taste	-	GB/T 5750.4-2023 6.1	No Abnormal Odour And Smell	-	No Abnormal Odour And Smell.	Pass
13	Turbidity	NTU	GB/T 5750.4-2023 5.1	0.90	0.5	≤1	Pass
14	Free chlorine	mg/L	GB/T 5750.11-2023 4.1	<0.01	0.01	≤2	Pass



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