



STC Test Report

Date : 2009-04-24
No. : HC229884

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Applicant(Code:MAT020) : ██████████ Technology Group Co Ltd

Description of Sample(s) : One submitted sample said to be AOK Portable Alkaline Ionizer.

Date Sample(s) Received : 2009-04-14

Date Tested : 2009-04-15 to 2009-04-23

Investigation Requested : Refer to the next page.

Conclusion(s) :

1. The tested Extractable Heavy Metal of the submitted sample were found **complied** respective requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB and Regulation (EC) No. 1935/2004 (Material in contact with food regulation).
2. The tested dionized water of the submitted sample **passed** the World Health Organization (WHO) Guidelines for Drinking Water Quality.
3. The treated tap water which was stored in "AOK Portable Alkaline Ionizer" for 10 minutes. Magnesium content of the treated tap water increased from 2.1 mg/L to 4.7 mg/L.
4. pH of the treated tap water turned alkaline when comparing to the original tap water.

Remark(s) : The "AOK Portable Alkaline Ionizer" sample was activated by filling in 60°C hot water for 2 minutes and then rinsed 3 times by hot water before test.



LAU Yuk Kuen, Joey
Authorized Signatory
Chemical and Food Department
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

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Investigation Requested:

For “AOK Portable Alkaline Ionizer” :

1. For material : metal or metallic coating, except aluminium
- Extractable Heavy Metal (Lead, Cadmium, Chromium (VI) and Nickel).

For the dionized water which was stored in the “AOK Portable Alkaline Ionizer” for 10 minutes :

2. Color
3. Turbidity
4. Ammonia content
5. Chloride content
6. Copper content
7. Sodium content
8. Sulphate content

Comparison between tap water and tap water which was stored in the “AOK Portable Alkaline Ionizer” for 10 minutes :

9. Aluminium content
10. Calcium content
11. Iron content
12. Magnesium content
13. Potassium content
14. Zinc content
15. pH value (at 25°C)

Method(s) Used:

1. The sample was filled with distilled water at 100°C for 24 hours. The heavy metal content of extracting solution was then analysed using Atomic Absorption Spectrometry (AAS) and/or Inductively Coupled Plasma Spectrometry Optical Emission Spectrometry (ICP-OES)
2. Ref. APHA 18th Ed 2120 C & HACH Colorimetric Method
3. Ref. APHA 18th Ed 2130 B
4. Ref. APHA 20th Ed 4500-NH₃ B & C
5. Ref. APHA 20th Ed 4500-Cl⁻ B
- 6-7: Inductively Coupled Plasma – Atomic Emission Spectrophotometry
8. Ref. APHA 19th Ed 4500-SO₄²⁻ E
- 9-14: Inductively Coupled Plasma – Atomic Emission Spectrophotometry
15. Ref. APHA 20th Ed 4500-H⁺ B

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Test Result(s):

1. Extractable Heavy Metal

Test Item(s)	“AOK Portable Alkaline Ionizer”	Maximum Permissible Limit*
Extractable Lead	<0.005 mg/dm ²	0.01 mg/ dm ²
Extractable Cadmium	<0.005 mg/ dm ²	0.005 mg/ dm ²
Extractable Chromium (VI)	<0.003 mg/ dm ²	0.45 mg/ dm ²
Extractable Nickel	<0.005 mg/ dm ²	0.1 mg/ dm ²

*The specification was quoted from German drink water norm “Trinkwasserverordnung”

For the dionized water which was stored in the “AOK Portable Alkaline Ionizer” for 10 minutes

Test Item(s)	Result	WHO Guidelines#
2. Color	4 TCU	<15 TCU
3. Turbidity	1.5 NTU	<5 NTU
4. Ammonia content	<1 mg/L	<1.5 mg/L
5. Chloride content	<5 mg/L	<250 mg/L
6. Copper content	<0.1 mg/L	<1 mg/L
7. Sodium content	<1 mg/L	<200 mg/L
8. Sulphate content	11 mg/L	<250 mg/L

Guidelines for Drinking Water Quality, Second Edition, Volume 2 Health criteria and other supporting information, 1996 (pp.940-949 and Addendum to Vol. 2. 1998 (pp. 281-283))



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Comparison between tap water and tap water which was stored in the “AOK Portable Alkaline Ionizer” for 10 minutes

Test Item(s)	Tap Water	Treated Tap Water
9. Aluminium content	<0.1 mg/L	<0.1 mg/L
10. Calcium content	19 mg/L	20 mg/L
11. Iron content	<0.1 mg/L	<0.1 mg/L
12. Magnesium content	2.1 mg/L	4.7 mg/L
13. Potassium content	4.0 mg/L	4.0 mg/L
14. Zinc content	<0.1 mg/L	<0.1 mg/L
15. pH value (at 25°C)	8.3	9.4

Note : < denotes less than
mg/dm² denotes milligram per square decimeter
mg/L denotes milligram per Liter

Photo(s):



******* End of Test Report *******

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