



Test Report

Report No: KEYS241108077001RH-03

Date: Nov. 15, 2024

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Applicant : Yunshen Smart Tech(Shenzhen) Co., Ltd
Address : Room 201, Building A, No.1 Qianwan 1st Road, QianhaiShenzhen Hong Kong Cooperation Zone, Shenzhen (settled inShenzhen Qianhai Business SecretaryCo., Ltd.)

The following sample(s)
was /were submitted and identified on behalf of the clients as:

Sample Name : Hydrogen-rich water bottle
Sample Model : H-B-HEX5
Sample Received Date : Nov. 09, 2024
Testing Period : Nov. 13, 2024 to Nov. 15, 2024
Test Requested : As specified by client, for compliance with Food and Drug Administration: Regulations.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
Conclusion : PASS (Based on test results)

Signed for and on behalf of

Tony Qian/ Technical Directory

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Result Summary:

Test Requested	Conclusion
For Material: Glass ASTM C738-94(2020) Standard Test Method for Lead and Cadmium Extracted from Glazed Ceramic Surfaces	
Sec. 545.400 Pottery (Ceramics), Imported and Domestic -Cadmium Contamination (CPG 7117.06)	PASS
Sec. 545.450 Pottery (Ceramics), Imported and Domestic -Lead Contamination (CPG 7117.07)	PASS
For Material: PC U.S. FDA 21 CFR 177.1580	
As specified in FDA 21 CFR 177.1580 - Distilled water	PASS
As specified in FDA 21 CFR 177.1580 - 50% ethyl alcohol	PASS
As specified in FDA 21 CFR 177.1580 - n- heptane	PASS
- Bisphenol A	PASS
For Material: Aluminum U.S. FDA CFR 175.300 & CPG 7117.05.	
175.300 Resinous and polymeric coatings - Total Extractant by Water	PASS
175.300 Resinous and polymeric coatings - Total Extractant by Heptane	PASS
175.300 Resinous and polymeric coatings - Total Extractant by 8% alcohol	PASS
For Material: Silicone U.S. FDA 21 CFR 177.1210	
177.1210 Closures with sealing gaskets for food containers - Chloroform fraction of extractives	PASS



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Test Result: No.1

Test Method: As specified in ASTM C738-94(2020), FDA/ORA CPG 7117.06/07

Test item	Simulant Used	Test Condition	Result(mg/ml)	Limit (mg/ml)
Pb	4 % acetic acid	2 hours at 20 to 24°C	N.D.	0.5
Cd	4 % acetic acid	2 hours at 20 to 24°C	N.D.	0.5

- Note:
1. N.D.= Not Detected(<MDL)
 2. MDL = Method Detection Limit

Limit as below

Category	Criteria	Cadmium Guidelines micrograms/mL
Flatware	Average of 6 units	0.5
Small hollowware	Any one of 6 units	0.5
Large hollowware	Any one of 6 units	0.25

Category	Criteria	Lead Guidelines micrograms/mL
Flatware	Average of 6 units	3.0
Small Hollowware other than cups and mugs	Any one of 6 units	2.0
Cups/mugs	Any one of 6 units	0.5
Large Hollowware other than pitchers	Any one of 6 units	1.0
Pitchers	Any one of 6 units	0.5

Test Result: No.2

Test Method: As specified in FDA 21 CFR 177.1580.

Simulant Used	Test Condition	Result Total Migration (%)	Maximum Permissible Limit (%)
Distilled water	At reflux temperature for 6 hours	0.04	0.15
50% ethyl alcohol	At reflux temperature for 6 hours	0.05	0.15
n- heptane	At reflux temperature for 6 hours	0.09	0.15

Note: % = percent by weight

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Test Item	Test Method	MDL	Result
Bisphenol A	EPA3550C:2007, EPA8270D:2007	0.5 mg/kg	N.D.

Note: N.D. =Not Detected

Test Result: No.3

Test Method: As specified in FDA 21 CFR 177.1580.

Simulant Used	Test Condition	Result Total Migration (%)	Maximum Permissible Limit (%)
Distilled water	At reflux temperature for 6 hours	0.03	0.15
50% ethyl alcohol	At reflux temperature for 6 hours	0.06	0.15
n- heptane	At reflux temperature for 6 hours	0.08	0.15

Note: % = percent by weight

Test Item	Test Method	MDL	Result
Bisphenol A	EPA3550C:2007, EPA8270D:2007	0.5 mg/kg	N.D.

Note: N.D. =Not Detected

Test Result: No.4

Test Method: As specified in U.S. FDA CFR 175.300 & CPG 7117.05.

Simulant Used	Time	Temperature	Limit	Result Total Extractives
Distilled Water	2 hours	150 °F	20mg/inch ²	<0.5mg/inch ²
Heptane	2 hours	150 °F	20mg/inch ²	<0.5mg/inch ²
8% alcohol	2 hours	150 °F	20mg/inch ²	<0.5mg/inch ²

Test Result: No.5

Test Method: As specified in FDA 21 CFR 177.1210

Chloroform fraction of extractives

Simulant Used	Test Condition	Result Total Migration (ppm)	Maximum Permissible Limit (ppm)
Distilled Water	2 hours at reflux temperature	19	50

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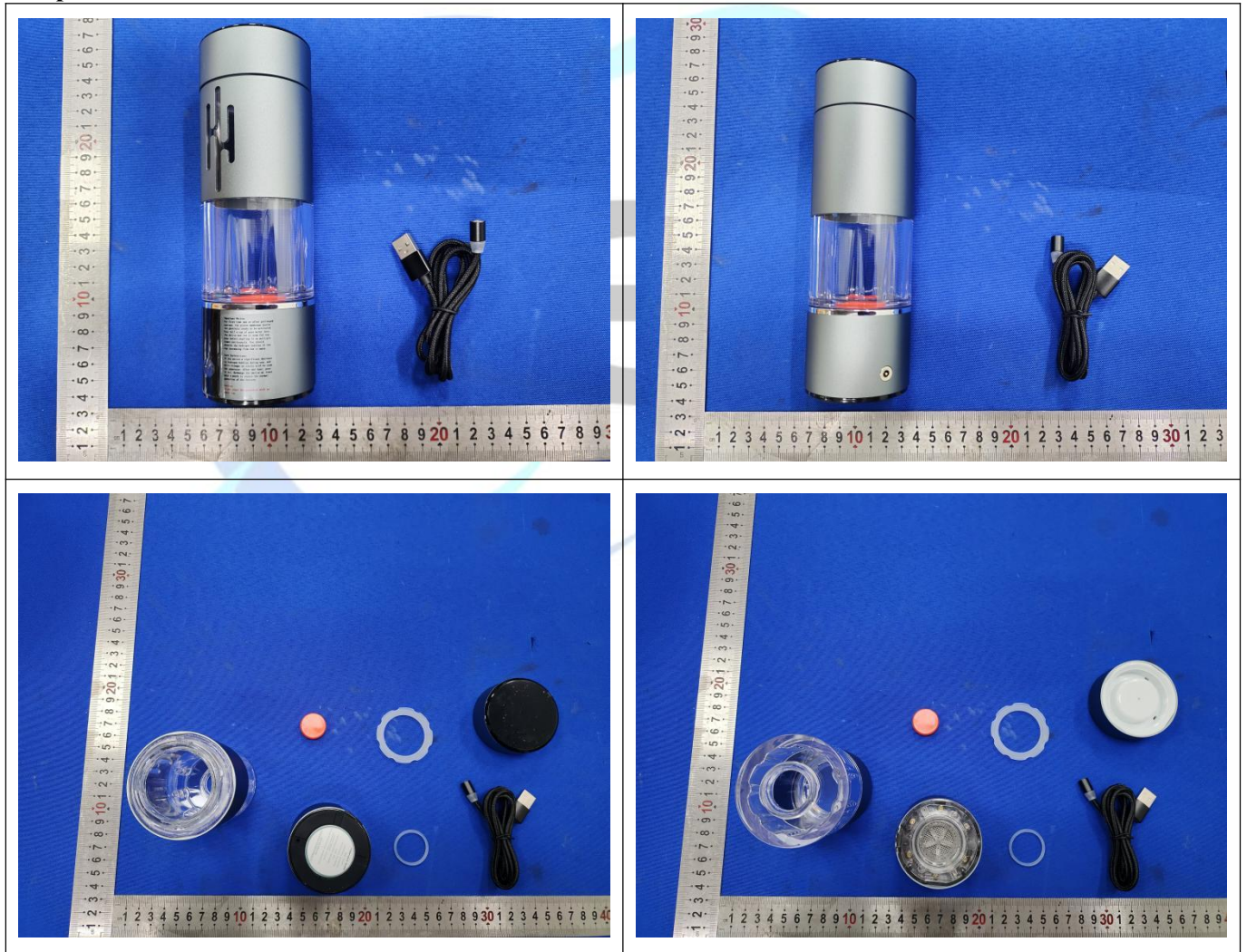
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Sample Description:

Material No.	Material	Description	Location
1	Glass	Clear Glass	Cup Body
2	PC	White Plastic	Cup Lid
3	PC	Red Plastic	Round Sheet
4	Aluminum Material	Silver Metal	Filter Screen Cover
5	Silicone	White Transparent Silicone	Sealing Ring

Sample Photo:



*** End of Report ***

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