

# Test Report

Report No.: CTT2006032906ENR1

Date: Jul. 16, 2020

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Applicant: L

Address: 5

Sample Received Date: Jun. 17, 2020

Completed Date: Jul. 16, 2020

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Wheat Straw Water Bottle

Model No.: 8412/8413/8414

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of CTT



Frank / Lab manager

Consumer Testing Technology Co., Ltd.

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## Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Tested materials of submitted samples	<p>German food, Articles of Daily Use and Feed Code (LFGB), section 30&amp;31, and BfR Recommendations.</p> <ul style="list-style-type: none"> <li>- Overall migration</li> <li>- Soluble heavy metal</li> <li>- Catalyst residues (Chromium(Cr), Vanadium(V), Zirconium(Zr), Hafnium(Hf))</li> <li>- Peroxide residues</li> <li>- Volatile organic components</li> <li>- Extractable components</li> <li>- Total Platinum(Pt) Content</li> </ul>	PASS
2	Tested materials of submitted samples	<p>Client's Requirement</p> <ul style="list-style-type: none"> <li>- Specific migration of Formaldehyde</li> </ul>	PASS
3	Tested materials of submitted samples	<p>COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food and COMMISSION REGULATION (EU) 2018/213 on the use of Bisphenol A in varnishes and coatings intended to come into contact with food.</p> <ul style="list-style-type: none"> <li>- Specific migration of Bisphenol A (BPA)</li> </ul>	PASS
4	Tested materials of submitted samples	<p>Client's requirements refer to German food, Articles of Daily Use and Feed Code (LFGB), section 30&amp;31, and DIN 51032-2017: Ceramic, glass, glass ceramics, vitreous enamels Permissible limits for the release of lead and cadmium from articles intended for use in contact with foodstuffs</p> <ul style="list-style-type: none"> <li>- Release of Lead and Cadmium</li> </ul>	PASS

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## Test Result(s):

Overall migration

Method: With reference to BS EN1186-9:2002(Filling)

Material No.	Test Condition	Limit (mg/dm <sup>2</sup> )	Result(mg/dm <sup>2</sup> )	Conclusion
1	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS
7	10% Ethanol(v/v), 70°C, 2 hours	10	<3	PASS

**Note:** 1. mg/dm<sup>2</sup> = milligram per square decimetre of surface area of material or article.

Soluble heavy metal

Method: With reference to BS EN13130-1:2004, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Ni	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	0.02	
Material No.	Result (mg/kg)									
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	PASS
7	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	<0.01	PASS

**Note:** 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.  
2. Test condition: 3% Acetic acid(w/v) at 70°C for 2 hours.

Catalyst residues (Chromium(Cr), Vanadium(V), Zirconium(Zr), Hafnium(Hf))

Method: Acid digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Elements	Chromium(Cr)	Vanadium(V)	Zirconium(Zr)	Hafnium(Hf)	Conclusion
Limit (mg/kg)	10	20	100	100	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS

**Note:** 1. mg/kg = milligram per kilogram (ppm).  
2. N.D. = Not Detected (< RL).  
3. RL (Reporting Limit) = 10 mg/kg.

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**Test Result(s):**

Peroxide value

Method: With reference to 58th Communication on the testing of plastics, Bundesgesundheitsblatt 40 (1997) 412

Material No.	Limit(mg/kg)	Result(mg/kg)	Conclusion
5	Absent	Absent	PASS

**Note:** 1. mg/kg = milligram per kilogram..

Volatile organic components

Method: Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz 46 (2003) 362.

Material No.	Test Condition	Limit(%)	Result(%)	Conclusion
5	70°C , 2 hours	0.5	0.2	PASS

**Note:** 1. % = Percentage by weight.

Extractable components

Method: With reference to 61st Communication on testing of plastics in Bundesgesundheitsblatt, Gesundheitsforschung, Gesundheitsschutz 46 (2003) 362.

Material No.	Test Condition	Limit(%)	Result(%)	Conclusion
5	10% Ethanol, Refluxing, 5 hours	0.5	<0.1	PASS

**Note:** 1. % = Percentage by weight.

Total Platinum(Pt) Content

Method: Acid digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
5	50	16	PASS

**Note:** 1. mg/kg = milligram per kilogram (ppm).  
 2. N.D. = Not Detected (< RL).  
 3. RL (Reporting Limit) = 10 mg/kg.

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## Test Result(s):

Specific migration of Formaldehyde<sup>s</sup>

Method: With reference to CEN/TS 13130-23:2005, analyzed by Ultraviolet visible Spectroscopy (UV-Vis).

Material No.	Description	Location
1	Grey/brown plastic	Large bottle body

Material No.	Test Condition	Client's Limit(mg/kg)	Result(mg/kg)	Conclusion
1	3% Acetic acid(w/v),70℃ for 2 hours	15	<1	PASS

**Note:** 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.

Specific migration of Bisphenol A (BPA)

Method: With reference to CEN/TS 13130-13:2005, analyzed by Liquid Chromatography- Mass Spectrometry (LC-MS/MS).

Material No.	Test Condition	Limit (mg/kg)	Result(mg/kg)	Conclusion
1	3% Acetic acid(w/v),70℃ for 2 hours	0.05	N.D.	PASS
2	3% Acetic acid(w/v),70℃ for 2 hours	0.05	N.D.	PASS
3	3% Acetic acid(w/v),70℃ for 2 hours	0.05	N.D.	PASS
6	3% Acetic acid(w/v),70℃ for 2 hours	0.05	N.D.	PASS

**Note:** 1. mg/kg = milligram per kilogram (ppm).  
2. N.D. = Not Detected (< RL).  
3. RL(Reporting Limit) =0.05mg/kg.

Release of Lead and Cadmium

Method: With reference to EN 1388-2:1996, analyzed by Atomic Absorption Spectrometer (AAS) / Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Test Item	Client's Limit (mg/L)	Result(mg/L)				Conclusion
			1	2	3	4	
4	Lead(Pb)	1.5	<0.1	<0.1	<0.1	<0.1	PASS
	Cadmium(Cd)	0.1	<0.01	<0.01	<0.01	<0.01	

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- Note:**
1. Volume of 4% Acetic acid used 330 mL.
  2. mg/L = milligram per liter.
  3. Permissible limits for articles
  4. This report is replaced by CTT2006032906EN

Category	Flatware		Hollow-ware	
	Lead (mg/dm <sup>2</sup> )	Cadmium (mg/dm <sup>2</sup> )	Lead (mg/L)	Cadmium (mg/L)
Tableware and kitchen utensils, pottery, glass and glass ceramic	0.8	0.07	4.0	0.3
Cook and baking equipment, packaging containers, storage containers made of ceramics, glass and glass ceramic	0.4	0.05	1.5	0.1

## Test Material List

Material No.	Description	Location
1	Brown plastic	Lid
2	Grey plastic	Lid
3	Black plastic	Lid inner
4	Transparent glass	Cup inner(green style)
5	White translucency silicone	Seal ring
6	Grey/brown plastic	Big cup body
7	Grey/brown plastic	Little cup body

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**Photo of Sample:**



\*\*\*End of Report\*\*\*

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