

Test Report

No. NGBHG1902547801

Date: 06 Jun 2019

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XIAMEN ROWEY GLASS INDUSTRY CO., LTD.

3B, NO.143-3 TIANAN INDUSTRIAL PARK, YUEHUA ROAD, HULI DISTRICT, XIAMEN, CHINA

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

SGS Job No. : NBHL1905008427CW - NB
 Date of Sample Received : 29 May 2019
 Testing Period : 29 May 2019 - 06 Jun 2019
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Extractable component (sample 004)	PASS
Sensorial examination odour and taste test (sample 001~002 and 004)	PASS
Leachable lead and cadmium (sample 003)	PASS
Leachable Cobalt (sample 003)	PASS
Specific migration of heavy metal (sample 001)	PASS
Lead(Pb) and cadmium(Cd) (sample 001 and 004)	PASS
Volatile organic matter (VOM) (sample 004)	PASS
Total content of bisphenol A (sample 001)	PASS
Polycyclic aromatic hydrocarbons (PAHs) (sample 001 and 004)	PASS
Specific Migration of Heavy Metal (sample 002)	PASS



SGS-CSTC 宁波分公司
 Inspection & Testing Services
 Ningbo Branch Chemical Laboratory

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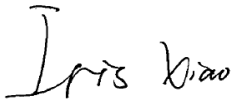
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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch



Iris Xiao
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Ningbo Branch Chemical Laboratory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB19-025478.001	White plastic lid part	PP
SN2	NGB19-025478.002	Silvery metal tea strainer	STAINLESS STEEL
SN3	NGB19-025478.003	Transparent glass bottle	GLASS
SN4	NGB19-025478.004	Transparent silicone rubber ring	SILICONE RUBBER

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Extractable component (sample 004)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine extractable component.

Test Method : With reference to 61st Mitteilung über die Untersuchung von Kunststoffen , Bundesgesundheitsbl 46 (2003) 362.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 004 Extractives</u>
Distilled water	24.0hr(s)	70°C	0.5% (w/w)	<0.1% (w/w)
10% Ethanol	24.0hr(s)	70°C	0.5% (w/w)	<0.1% (w/w)

Notes :

- (1) Test condition & simulant were specified by client.
- (2) %(w/w) = percentage of weight by weight.

Sensorial examination odour and taste test (sample 001~002 and 004)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine sensorial examination odour and taste test.



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Test Method : With reference to DIN 10955:2004.
 Test media: Deionized water;
 No.of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>	<u>002</u>	<u>004</u>
Test time(hr)	-	24	24	24
Temperature(°C)	-	70	70	70
Sensorial examination odour (Point scale)	2.5	0	0	0
Sensorial examination taste (Point scale)	2.5	0	0	0

Notes :

Scale evaluation:

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Leachable lead and cadmium (sample 003)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments & DIN 51032:2017, to determine leachable lead and cadmium.

Test Method : With reference to EN 1388-2:1995, Analysis was performed by ICP-OES.

Sample 003 Hollowware

	<u>Vol.of 4%Acetic acid for vessel (mL)</u>	<u>Depth (mm)</u>
1	450	202
2	450	202

	<u>Leachable Lead (mg/L)</u>	<u>Leachable Cadmium (mg/L)</u>
1	<0.1	<0.01
2	<0.1	<0.01
Limit	4	0.3

Notes :

- (1) Flatware: With an internal depth not exceeding 25mm, measured from the lowest point to the horizontal plane passing through the overflow point.



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- (2) Hollowware: Those articles which do not fall into the category of Flatware.
- (3) Drinking rim: The drinking rim is a 20mm wide section of the external surface of a drinking vessel. The width is measured downwards from the upper edge along the wall of the vessel.

Table 1
Permissible limits for articles made from ceramics, glass and glass ceramics

Items	Flatware		Hollow-ware	
	Lead mg/dm ²	Cadmium mg/dm ²	Lead mg/l	Cadmium mg/l
Table ware and kitchen utensils made of ceramics, glass and glass ceramics	0.8 ^a	0.07 ^a	4.0 ^a	0.3 ^a
Cooking and baking equipment, packaging containers, storage containers made of ceramic, glass and glass ceramics	0.4	0.05	1.5 ^a	0.1 ^a

Note: ^a In accordance with the EU directive on ceramic objects.

Table 2
Permissible limits for drinking rim

Lead mg/article	Cadmium mg/article
2.0	0.20

Leachable Cobalt (sample 003)

Test Requested : In accordance with ALS Opinion Number 2017/15, to determine leachable cobalt.

Test Method : With reference to EN 1388-2:1995, analysis was performed by ICP-OES.

Sample 003 Hollowware

	vol. of 4% Acetic acid (mL)	Depth (mm)
1	450	202
2	450	202

	Leachable Cobalt (mg/L)
1	<0.05
2	<0.05
Limit	0.1



Specific migration of heavy metal (sample 001)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine specific migration of heavy metal.

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Sample 001

Simulant Used : 20% Ethanol (V/V) aqueous solution

Test Condition : 70 °C 24.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/volume	-	dm ² /kg	-	6.0
Aluminium	1	mg/kg	0.1	ND
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Nickel	0.02	mg/kg	0.02	ND

Notes :

(1) Test condition & simulant were specified by client.

Lead(Pb) and cadmium(Cd) (sample 001 and 004)



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Test Requested : For sample 001,
In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine Lead(Pb) and Cadmium (Cd).

For sample 004,
In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation, to determine Lead(Pb) and Cadmium (Cd).

Test Method : Total lead and cadmium: Acidic digestion, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>004</u>
Total Lead	★	mg/kg	2	ND	ND
Total Cadmium	★	mg/kg	2	ND	ND

Notes :

(1) ★= Absent.

Volatile organic matter (VOM) (sample 004)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine volatile organic matter (VOM).

Test Method : With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003)362
Test condition : 200°C, 4.0 hours

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Volatile organic matter (VOM)	0.5	% (w/w)	0.1	0.2

Notes :

(1) %(w/w) = percentage of weight by weight

Total content of bisphenol A (sample 001)



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Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Implementing Regulation (EU) 321/2011 amending Regulation (EU) 10/2011 of 14 January 2011 and BfR recommendations, to determine bisphenol A.

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-FLD/HPLC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Bisphenol-A	0.1	mg/kg	0.1	ND

Polycyclic aromatic hydrocarbons (PAHs) (sample 001 and 004)

Test Requested : For sample 001,
In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine polycyclic aromatic hydrocarbons(PAHs).

For sample 004,
In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation, to determine polycyclic aromatic hydrocarbons(PAHs).

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	1	mg/kg	-	ND
Naphthalene(NAP)	1	mg/kg	0.1	ND
Acenaphthylene(ANY)	-	mg/kg	0.1	ND
Acenaphthene(ANA)	-	mg/kg	0.1	ND
Fluorene(FLU)	-	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	0.2	mg/kg	0.1	ND



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Test Item(s)	Limit	Unit	MDL	001
Chrysene(CHR)	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.2	mg/kg	0.1	ND

Test Item(s)	Limit	Unit	MDL	004
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	1	mg/kg	-	ND
Naphthalene(NAP)	1	mg/kg	0.1	ND
Acenaphthylene(ANY)	-	mg/kg	0.1	ND
Acenaphthene(ANA)	-	mg/kg	0.1	ND
Fluorene(FLU)	-	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	0.2	mg/kg	0.1	ND
Chrysene(CHR)	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.2	mg/kg	0.1	ND

Specific Migration of Heavy Metal (sample 002)

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Council of Europe Resolution CM/Res(2013)9 and BfR recommendation, to determine specific migration of heavy metal.



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Test Method : With reference to EN 13130-1:2004, analysis was performed by ICP-MS.

Sample 002:

Simulant Used : Artificial tap water

Test Condition : 70 °C 24.0 hr(s)

Test Item(s)	Limit	Unit	MDL	1st + 2nd Migration
Aluminium (Al)	35	mg/kg	0.2	ND
Antimony (Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	0.293
Cobalt(Co)	0.14	mg/kg	0.01	0.02
Copper(Cu)	28	mg/kg	0.1	0.2
Iron(Fe)	280	mg/kg	0.25	1.93
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	0.37
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin(Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	0.024
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND

Test Item(s)	Limit	Unit	MDL	3rd Migration
Aluminium (Al)	5	mg/kg	0.2	ND
Antimony (Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin(Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND



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Test Report

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

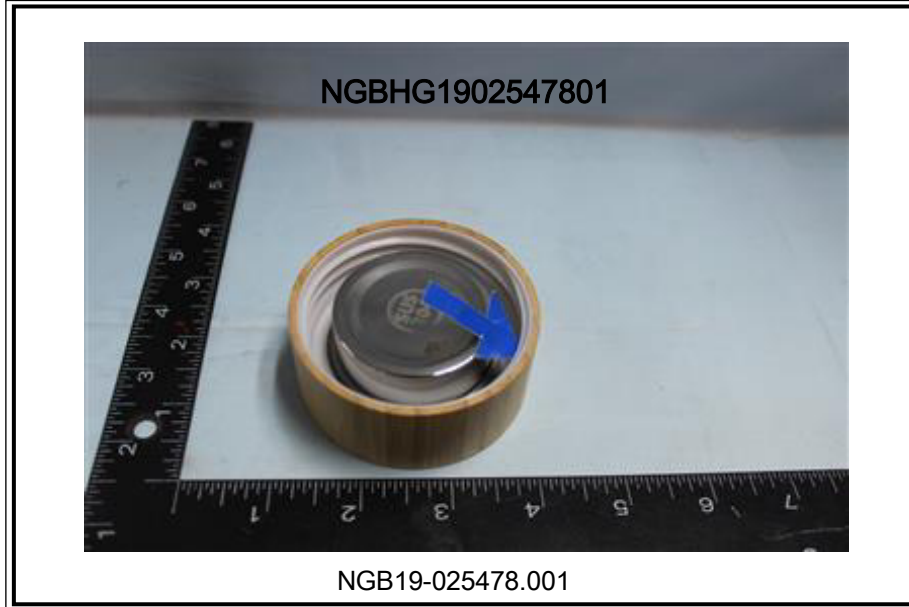
- (1) Test condition & simulant were specified by client.
- (2) Requirement for repeat use article: According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles
- (3) The ratio of surface area to volume ratio was 6.0 dm² per 1 kg of foodstuff in contact with.
- (4) Acidic foodstuff is not considered for compliance.



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Sample photo:







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*** End of Report ***

