Preliminary Report

Client Name: EVERICH COMMERCE GROUP LIMITED

Client Address: 29/F.,UDC TIMES BUILDING A. NO.8 XINYE ROAD, QIANJIANG CBD. HANGZHOU ZHEJIANG 310016, CHINA

Sample Description: GLASS BOTTLE/LUNCH BOX

Style No.: NOT PROVIDED

Item No.: NOT PROVIDED

The above sample(s) and information were provided by the client.

SGS No.: NBHL2307014169CW

Sample Receiving Date: Aug 01, 2023

Testing Period: Aug 01, 2023 ~ Sep 25, 2023

Test Requested: Select test(s) as requested by the client.

Testing Performed: Follow selected test(s) as requested by client.

	Test Requirement	Comment
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Sensorial examination odour and taste test	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Colour release	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Polynuclear aromatic hydrocarbons (PAHs)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011 and BfR recommendations - Bisphenol A	Fail
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, DIN 51032:2017 - Leachable Lead and Cadmium	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, ALS Opinion Number 2017/15 - Leachable cobalt	Pass
7	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Overall migration	Pass

	Test Requirement	Comment
8	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Specific migration of heavy metals	Pass
9	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Specific migration of primary aromatic amine (individual)	Pass
10	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Extractable Components	Pass
11	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Volatile Organic Matter(VOM)	Pass
12	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Total Platinum(Pt)	Pass
13	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Total Lead and Cadmium	Pass
14	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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 - Extractable Heavy Metals	Pass

Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A	NGB23-0034118-0001	Lunch Box	WHOLE PRODUCT
SN2	A1	NGB23-0034118-0001.C001	Silvery metal box inside (black)	STAINLESS STEEL 304
SN3	A2	NGB23-0034118-0001.C002	White silicone rubber big ring on lid	SILICONE RUBBER
SN4	A4	NGB23-0034118-0001.C004	Black plastic big lid	PP
SN5	B	NGB23-0034118-0002	Glass Bottle	WHOLE PRODUCT
SN6	B1	NGB23-0034118-0002.C001	Transparent glass bottle	GLASS
SN7	B3	NGB23-0034118-0002.C003	Black silicone rubber ring on glass lid	SILICONE RUBBER

Remarks:

(1) mg/dm^2 = milligram per square decimeter
$\mu g/cm^2$ = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
(2) ℃ = degree Celsius
(3) <= less than
(4) RL = Reporting Limit
(5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No	Overall Migration	Specific Migration
A4	6.9 dm^2/kg	6.9 dm^2/kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2023.
No. of panelist: 6

Test Media	Test Condition	
	A	B
Distilled water	100ºC, 24 hrs	70ºC, 2 hrs

Test Item(s)	Limit	A	B
Sensorial examination odour	2.5	1.0	0
Sensorial examination taste	2.5	1.0	0
Comment		**Pass**	**Pass**

Notes:
Intensity scale (rounded at 0.5):
0 – no perceptible difference
1 – just perceptible difference
2 – slight difference
3 – marked difference
4 – strong difference

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Colour release

Test Method: With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

Simulant used	Limit	A4	Comment
Colour release in 2% acetic acid (W/W)	No colour release	Negative	Pass
Colour release in Coconut Oil	No colour release	Negative	Pass

Simulant used	Limit	B3	Comment
Colour release in 2% acetic acid (W/W)	No colour release	Negative	Pass

Notes:
(1)Negative = No color release observed, Positive = Color release observed.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Polynuclear aromatic hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2	A4	B3
Benzo(a)pyrene(BaP)	50-32-8	0.2	mg/kg	0.2	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	0.2	mg/kg	0.2	ND	ND	ND
Benzo(a)anthracene(BaA)	56-55-3	0.2	mg/kg	0.2	ND	ND	ND
Benzo(b)fluoranthene(BbF)	205-99-2	0.2	mg/kg	0.2	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	0.2	mg/kg	0.2	ND	ND	ND
Benzo(k)fluoranthene(BkF)	207-08-9	0.2	mg/kg	0.2	ND	ND	ND
Chrysene(CHR)	218-01-9	0.2	mg/kg	0.2	ND	ND	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	0.2	mg/kg	0.2	ND	ND	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	0.2	mg/kg	0.2	ND	ND	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	0.2	mg/kg	0.2	ND	ND	ND
Phenanthrene(PHE)	85-01-8	0.2	mg/kg	0.2	ND	ND	ND
Pyrene(PYR)	129-00-0	0.2	mg/kg	0.2	ND	ND	ND
Anthracene(ANT)	120-12-7	0.2	mg/kg	0.2	ND	ND	ND
Fluoranthene(FLT)	206-44-0	0.2	mg/kg	0.2	ND	ND	ND
Naphthalene(NAP)	91-20-3	0.2	mg/kg	0.2	ND	ND	ND
Acenaphthylene(ANY)	208-96-8	0.2	mg/kg	0.2	ND	ND	ND

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2	A4	B3
Acenaphthene(ANA)	83-32-9	0.2	mg/kg	0.2	ND	ND	ND
Fluorene(FLU)	86-73-7	0.2	mg/kg	0.2	ND	ND	ND
Comment					**Pass**	**Pass**	**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, Commission Implementing Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) 10/2011 of 14 January 2011 and BfR recommendations - Bisphenol A

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	Limit	Unit(s)	RL	A2	A4	B3
Bisphenol A	Prohibited	mg/kg	0.1	ND	1.7#	ND
Comment				**Pass**	**Fail**	**Pass**

Notes:
(1) # = Exceed the limit

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, DIN 51032:2017 - Leachable Lead and Cadmium

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

B1 Hollowware Pass

	Depth (mm)	Vol. of 4% acetic acid used (mL)
1	160	470
2	160	470

	Leachable Lead (mg/L)	Leachable Cadmium (mg/L)
1	<0.1	<0.01
2	<0.1	<0.01
Limit	4.0	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.
(2) Hollowware: Those articles which do not fall into the category of Flatware.

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.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, ALS Opinion Number 2017/15 - Leachable cobalt

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

B1 Hollowware Pass

	Depth (mm)	Vol. of 4% acetic acid used (mL)
1	160	470
2	160	470

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Overall migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A4	100ºC, 1 hr	100ºC, 1 hr	60℃, 3 hrs	60℃, 1 hr

Simulant used	Limit	Unit(s)	RL	A4 (1st Migration)	A4 (2nd Migration)	A4 (3rd Migration)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass

Simulant used	Limit	Unit(s)	RL	A4 (1st Migration)	A4 (2nd Migration)	A4 (3rd Migration)	Stability	Comment
Isooctane	10	mg/dm²	3.0	ND	ND	ND	Compliant	Pass

Notes:
(1) Analytical tolerance of evaporable simulants is 2 mg/dm² or 12 mg/kg, analytical tolerance of olive oil simulant is 3 mg/dm² or 20 mg/kg.
(2) Test condition & simulant were specified by client.
(3) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Specific migration of heavy metals

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

Simulant	Test Condition
	A4
3% Acetic acid (W/V)	100ºC, 24 hrs

Test Item(s)	Limit	Unit(s)	RL	A4		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.1	ND	ND	ND
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	5	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.1	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.1	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.025	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.025	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit(s)	RL	A4
Stability	-	-	-	Compliant
Comment				**Pass**

Notes:
(1) Test condition & simulant were specified by client.
(2) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. For substances which limit is “Not Detected”, the compliance is based on the first migration test result if it is detected.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation and BfR recommendation - Specific migration of primary aromatic amine (individual)

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

Simulant	Test Condition
	A4
3% Acetic acid (W/V)	100ºC, 24 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3’-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4′-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4’-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4’-Methylenedi-o-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4		
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxylaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzanilide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4		
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND
5-Amino-6-methylbenzimidazolone	67014-36-2	-	mg/kg	0.005	ND	ND	ND
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND
1,2-Phenylendiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	-	Compliant		
Comment					**Pass**		

Notes:

(1) Test condition & simulant were specified by client.
(2) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. For substances which limit is “Not Detected”, the compliance is based on the first migration test result if it is detected.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Extractable Components

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

Simulant used	Test Condition	Limit	Unit(s)	RL	A2	Comment
10% Ethanol(V/V)	100ºC, 1 hr	0.5	%(w/w)	0.1	ND	Pass
3% Acetic acid	100ºC, 1 hr	0.5	%(w/w)	0.1	ND	Pass
DI water	100ºC, 1 hr	0.5	%(w/w)	0.1	ND	Pass

Simulant used	Test Condition	Limit	Unit(s)	RL	B3	Comment
10% Ethanol(V/V)	70℃, 2 hrs	0.5	%(w/w)	0.1	ND	Pass
3% Acetic acid	70℃, 2 hrs	0.5	%(w/w)	0.1	ND	Pass
DI water	70℃, 2 hrs	0.5	%(w/w)	0.1	ND	Pass

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Volatile Organic Matter(VOM)

Test Method: With reference to BfR test method-Determination of volatile compounds in silicone consumer products (03/2022).
Test condition: 200℃, 4 hrs

Test Item(s)	Limit	Unit(s)	RL	A2	B3
Volatile organic matter (VOM)	0.5	%(w/w)	0.10	0.24	0.16
Comment				**Pass**	**Pass**

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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Total Platinum(Pt)

Test Method: Acid digestion, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	RL	A2	B3
Platinum(Pt)	50	mg/kg	20	ND	ND
Comment				**Pass**	**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation - Total Lead and Cadmium

Test Method: Acidic digestion, analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	RL	A2	B3
Cadmium(Cd)	Absent	mg/kg	2	ND	ND
Lead(Pb)	Absent	mg/kg	2	ND	ND
Comment				**Pass**	**Pass**

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, 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 - Extractable Heavy Metals

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

Simulant used:	0.5% Citric acid
Test condition:	100ºC, 24 hrs
Area/Volume	5.4dm²/kg

Test Item(s)	Unit(s)	RL	(1st+2nd) Migration		3rd Migration	
			Limit	A1	Limit	A1
Aluminium (Al)	mg/kg	0.2	35	ND	5	ND
Antimony (Sb)	mg/kg	0.02	0.28	ND	0.04	ND
Chromium(Cr)	mg/kg	0.1	1.75	ND	0.25	ND
Cobalt(Co)	mg/kg	0.01	0.14	ND	0.02	ND
Copper(Cu)	mg/kg	0.1	28	ND	4	ND
Iron(Fe)	mg/kg	0.25	280	0.47	40	ND
Manganese(Mn)	mg/kg	0.25	12.6	ND	1.8	ND
Molybdenum(Mo)	mg/kg	0.02	0.84	ND	0.12	ND
Nickel(Ni)	mg/kg	0.05	0.98	ND	0.14	ND
Silver(Ag)	mg/kg	0.03	0.56	ND	0.08	ND
Tin(Sn)	mg/kg	5	700	ND	100	ND
Vanadium(V)	mg/kg	0.005	0.07	ND	0.01	ND
Zinc(Zn)	mg/kg	1	35	ND	5	ND
Arsenic(As)	mg/kg	0.001	0.014	ND	0.002	ND
Barium(Ba)	mg/kg	0.25	8.4	ND	1.2	ND
Beryllium(Be)	mg/kg	0.005	0.07	ND	0.01	ND
Cadmium(Cd)	mg/kg	0.002	0.035	ND	0.005	ND
Lead(Pb)	mg/kg	0.005	0.07	0.012	0.01	ND
Lithium(Li)	mg/kg	0.02	0.336	ND	0.048	ND
Mercury(Hg)	mg/kg	0.002	0.021	ND	0.003	ND
Thallium(Tl)	mg/kg	0.0001	0.0007	ND	0.0001	ND
Comment			**Pass**			

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.

Remark:
Total food contact surface area of whole article (i.e. sealed container with cap, gaskets, stopper or similar sealing article) is applied in the calculation of the result according to Commission Regulation (EU) No 10/2011 of 14 January 2011 Article 17.
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

Sample Photo:

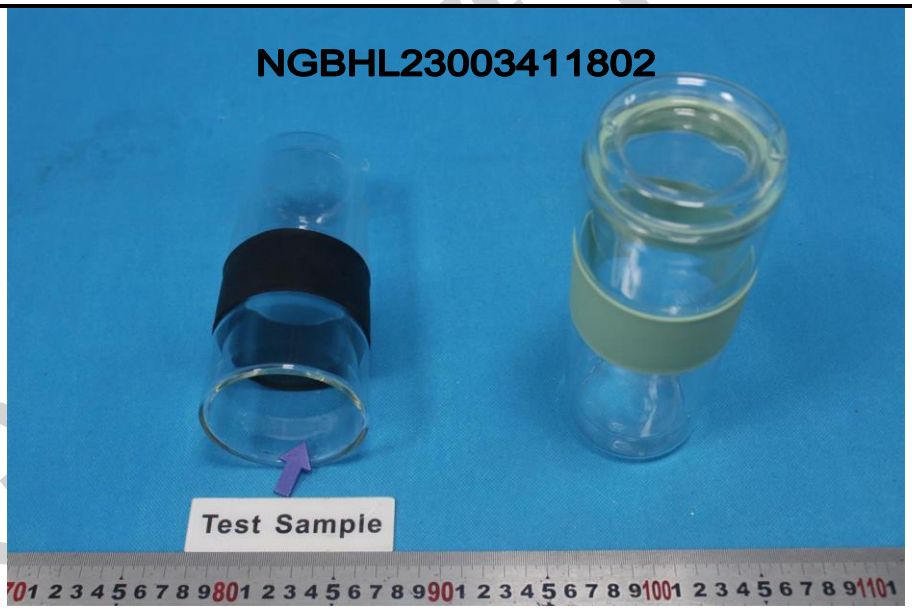
NGB23-0034118-0001

NGB23-0034118-0001.C001

NGB23-0034118-0001.C002

NGB23-0034118-0001.C004

NGB23-0034118-0002



NGB23-0034118-0002.C001

NGB23-0034118-0002.C003

SGS authenticate the photo on original report only

*** End of Report ***