



TEST REPORT

Report No.: STSGZ2310183026E

Date: 7-Nov-2023

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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Double wall bottle

Model/Style/Item #: MO2112

Vendor Code: 107978

Receiving Date: 18-Oct-2023, 1-Nov-2023

Test Period: From 18-Oct-2023 to 7-Nov-2023

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
4	Polycyclic-aromatic hydrocarbons (PAHs) content-- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material			
5	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
6	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
7	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC-MS/MS	PASS
8	Bisphenol A (BPA) content	In-house Method,determined by LC-MS	PASS
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material			
9	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
10	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
11	Bisphenol A Contents	In-house Method,determined by LC-MS	PASS
Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9 - For Metal Material			
12	Extractable Heavy metal	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-MS	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material			
13	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
14	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	PASS
15	Peroxides value	French pharmacopoeia method	PASS
16	Specific migration of Organotin (as Tin)	EN 13130-1:2004,determined by ICP- OES	PASS
17	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
18	Bisphenol A Contents	In-house Method,determined by LC-MS	PASS

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Result:

1. Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		1		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	1000	10
	Conclusion	PASS	-	-

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		4	5	6		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

3. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006 EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Result(s)				Limit (%)	RL (%)
			1	4	5	6		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	N.D.	0.1	-
Conclusion			PASS	PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

4. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 AfPS-GS-2019-01:PAK, determined by GC-MS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		category I ¹					
		1	4	5	6		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	1	0.2

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2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
 (b) RL: Report limit
 (c) N.D.: Not detected (result is less than RL)
 1: Material category

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
 Category II: Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material

5. Overall migration EN 1186-1:2002 & EN 1186-3:2022

Test specification	Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
	4				
	1 st	2 nd	3 rd		
1 50% Ethanol, 100 °C, 1h	N.D.	N.D.	N.D.	10	3
2 3% Acetic acid, 100 °C, 1h	3	N.D.	N.D.	10	3
Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
 (b) RL: Report limit
 (c) N.D.: Not detected (result is less than RL)

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6. Specific migration of Heavy metal EN 13130-1: 2004, determined by ICP-OES

Test condition: 3% Acetic acid, 100°C were filled and placed indoors for 24h

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		4				
		1 st	2 nd	3 rd		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	0.718	N.D.	0.820	-	0.1
8	Chromium (Cr)	0.089	0.021	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	0.062	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1

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22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

(d) The sum of all lanthanide substances migrating to the food or food simulant does not exceed the specific migration limit of 0,05 mg/kg

7. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by LC-MS/MS

Test Condition: 3%Acetic acid, 100°C, 1h

Compound	Result			Limit (mg/kg)	RL (mg/kg)
	4				
	1 st	2 nd	3 rd		
1 Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
Conclusion	-	-	PASS	-	-

Compound	Material			Limit (mg/kg)	RL (mg/kg)
	4				
	1 st	2 nd	3 rd		
1 biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS No.:92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2 Benzidine CAS No.:92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3 4-chloro-o-toluidine CAS No.:95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4 2-Naphthylamine CAS No.:91-59-8	N.D.	N.D.	N.D.	0.01	0.002
5 o-aminoazotoluene 4- amino-2',3- dimethylazobenzene 4-o-tolylazo-o-toluidine CAS No.:97-56-3	N.D.	N.D.	N.D.	0.01	0.002
6 5-nitro-o-toluidine CAS No.:99-55-8	N.D.	N.D.	N.D.	0.01	0.002

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7	4-Chloroaniline CAS No.:106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8	4-methoxy-m-phenylenediamine CAS No.:615-05-4	N.D.	N.D.	N.D.	0.01	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS No.:101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS No.:91-94-1	N.D.	N.D.	N.D.	0.01	0.002
11	3,3'-dimethoxybenzidine o-dianisidine CAS No.:119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS No.:119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS No.:838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	6-methoxy-m-toluidine p- cresidine CAS No.:120-71-8	N.D.	N.D.	N.D.	0.01	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene-dianiline CAS No.:101-14-4	N.D.	N.D.	N.D.	0.01	0.002
16	4,4'-oxydianiline CAS No.:101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS No.:139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS No.:95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	4-methyl-m-phenylenediamine CAS No.:95-80-7	N.D.	N.D.	N.D.	0.01	0.002
20	2,4,5-trimethylaniline CAS No.:137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS No.:90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS No.:60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS No.:2242-62-01	N.D.	N.D.	N.D.	0.01	0.002
24	Aniline (ANL) CAS No.:62-53-3	N.D.	N.D.	N.D.	0.01	0.002

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25	2,4-Dimethylaniline (2,4-DMA) CAS No.:95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS No.:87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS No.:108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS No.:106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS No.:823-40-5	N.D.	N.D.	N.D.	0.01	0.002

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

8. Bisphenol A (BPA) content In-house Method,determined by LC-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		4		
1	Bisphenol A	N.D.	Not Detected	0.01
Conclusion		PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9 - For Metal Material

9. Specific Migration of Heavy Metal EN 13130-1: 2004&EN 11885:2009,determined by ICP-OES and ICP-MS

Test condition: 0.5% Citric Acid, 100°C were filled and placed indoors for 24h

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		2					
		1 st + 2 nd	3 rd	1 st + 2 nd	3 rd	1 st + 2 nd	3 rd
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
2	Copper (Cu)	N.D.	N.D.	28	4	2	1

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3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (Tl)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	12.5	14.5	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
	Conclusion	PASS	PASS	-	-	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material

10. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2022

Test specification	Material		Limit (mg/dm ²)	RL (mg/dm ²)
	5 ^{-3rd}	6 ^{-3rd}		
1 50% Ethanol, 100 °C, 1h	N.D.	N.D.	10	3
2 3% Acetic acid, 100 °C, 1h	N.D.	4	10	3
Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

11. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS

Test Condition: 3% Acetic acid, 100 °C, 1h

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	5 ^{-3rd}	6 ^{-3rd}		
1 Bisphenol A (BPA)	N.D.	N.D.	0.05	0.01
Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

12. Bisphenol A (BPA) content In-house Method, determined by LC-MS

Test Item	Material		Client's Limit (mg/kg)	RL (mg/kg)
	5	6		
1 Bisphenol A	N.D.	N.D.	Not Detected	0.01
Conclusion	PASS	PASS	-	-

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Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material

13. Overall migration EN 1186-1:2002 & EN 1186-3:2022

Test specification		Material		Limit (mg/dm ²)	RL (mg/dm ²)
		5 ^{-3rd}	6 ^{-3rd}		
1	50% Ethanol, 100 °C, 1h	N.D.	N.D.	10	3
2	3% Acetic acid, 100 °C, 1h	N.D.	4	10	3
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

14. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200 °C, 4h

Compound		Material		Limit (%)	RL (%)
		5	6		
1	Volatile Compounds	0.13	0.14	0.5	0.1
Conclusion		PASS	PASS	-	-

Remark(s): (a) RL: Report limit

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15. Peroxide Value French pharmacopoeia method

Compound		Material		Requirement
		5	6	
1	Peroxide Value	Negative	Negative	Negative
	Conclusion	PASS	PASS	-

16. Specific migration of Organotin (as Tin) EN 13130-1:2004, determined by ICP-OES

Test condition: 3% Acetic acid, 100 °C, 1h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Organotin(as Sn)	N.D.	N.D.	0.1	0.01
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

17. Specific migration of Bisphenol A (BPA) DD CEN/TS 13130-13:2005, determined by LC-MS

Test Condition: 3% Acetic acid, 100°C, 1h

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5 ^{-3rd}	6 ^{-3rd}		
1	Bisphenol A (BPA)	N.D.	N.D.	0.05	0.01
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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18. Bisphenol A (BPA) content In-house Method,determined by LC-MS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		5	6		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.1
Conclusion		PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

Material List:

Material #	Position / Sample Description	Material
1	Black coating,cup body	-
2	Silvery metal,cup body	304 stainless steel
3	Silvery metal,bottom	-
4	Black plastic,cup cover	PP
5	Black silicone,sealing ring	silicone
6	Matte black silicone,stopper	silicone

Remark(s): The data of #1, #5, #6 were retesting result.

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Product Photo

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