

Test Report

Report No.: AGC02928180401-002

Date: Sep.25, 2018

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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

Report on the submitted samples said to be:

Sample Name : PE bottle
Item No. : MO9538
Vender Code : 114276
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Receiving Date : Apr.04, 2018
Testing Period : Apr.04, 2018 to Sep.25, 2018

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

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

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

Approved by: 

Liulinwen, Lewis

Technical Director



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Test Requested:

1. As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 & 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 .
4. As specified by client, to test sample with reference to Regulation 1935/2004/EC and Regulation (EU) No. 10/2011&(EU)2016/1416&(EU) 2017/752 and (EU) 2018/213 for:
 - 1)Overall Migration(3% (w/v) Acetic acid, 10%(v/v) Ethanol)
 - 2) Migration of Heavy metals
 - 3) Special Migration of Primary Aromatic Amine
 - 4) Migration of BPA

Conclusion

Pass

Pass

Pass

Pass

Pass

Pass

Pass

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Attestation of Global Compliance Std. & Tech.

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Test Result(s):
1. Test Result(s) of Cd:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Cadmium (Cd)	Refer to EN1122:2001 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-10	
Cadmium (Cd)	Refer to EN1122:2001 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)						Limit
			1-11	1-12	1-13	1-14	1-15	1-16	
Cadmium (Cd)	Refer to EN1122:2001 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

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2. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	0.5
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA _h A)		0.1	N.D.	N.D.	N.D.	0.5
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	0.5
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA _h A)		0.1	N.D.	N.D.	N.D.	0.5
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-7	1-8	1-9	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	0.5
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA _h A)		0.1	N.D.	N.D.	N.D.	0.5
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-10	1-11	1-12	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	0.5
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA _h A)		0.1	N.D.	N.D.	N.D.	0.5
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-13	1-14	1-15	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	0.5
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	0.5
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBA _h A)		0.1	N.D.	N.D.	N.D.	0.5
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	/
Conclusion		/	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample.

3. Test result of phthalates content

Unit: %,w/w

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	/

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Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	/

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-7	1-8	1-9	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	/

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Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-10	1-11	1-12	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	/

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-13	1-14	1-15	1-16	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	
Sum of DBP+BBP+DEHP		—	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	Pass	/

- Note:**
- 0.1%,w/w =1000mg/kg
 - MDL=method detection limit
 - N.D.=not detected (less than method detection limit)
 - “—” =Not regulated
 - As specified by client, only test the designated sample

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4.1. Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
3% (w/v) Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	N.D.	N.D.	10
10%(v/v) Ethanol		5	N.D.	N.D.	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-6	1-7	1-16	
3% (w/v) Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
10%(v/v) Ethanol		5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	/

Unit: mg/kg

Test Solution	Test condition	MDL	Test Result(s)				Limit
			1-8	1-9	1-10	1-11	
3% (w/v) Acetic acid	70°C, 2h	20	N.D.	N.D.	N.D.	N.D.	60
10%(v/v) Ethanol		20	N.D.	N.D.	N.D.	N.D.	60
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Solution	Test condition	MDL	Test Result(s)				Limit
			1-12	1-13	1-14	1-15	
3% (w/v) Acetic acid	70°C, 2h	20	N.D.	N.D.	N.D.	N.D.	60
10%(v/v) Ethanol		20	N.D.	N.D.	N.D.	N.D.	60
Conclusion	/	/	Pass	Pass	Pass	Pass	/

- Note:** 1. N.D.=not detected (less than method detection limit)
 2. MDL=method detection limit
 3. As specified by client, only test the designated sample.

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4.2. Migration of Heavy metals (for non-metal)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)						Limit
			3% (w/v) Acetic acid						
			1-1	1-2	1-3	1-4	1-5	1-7	
Barium (Ba) (M)	70°C, 2h / ICP-OES	0.25	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		0.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Conclusion		/	Pass	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% (w/v) Acetic acid			
			1-6	1-13	1-15	
Aluminum(Al) (M)	70°C, 2h/ ICP-OES	0.5	N.D.	N.D.	N.D.	1
Barium (Ba) (M)		0.25	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		0.5	N.D.	N.D.	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	N.D.	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	N.D.	N.D.	5
Nickel (Ni)(M)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion		/	Pass	Pass	Pass	/

Note: 1.N.D.=not detected (less than method detection limit)

2. M= Migration

3. MDL= method detection limit

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4.3. Special Migration of Primary Aromatic Amine

Unit: mg/kg

Test Solution	Test condition/ Equipment	MDL	Test Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
3% (w/v) Acetic acid	70°C, 2h /HPLC	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.01
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Solution	Test condition/ Equipment	MDL	Test Result(s)					Limit
			1-6	1-7	1-8	1-9	1-10	
3% (w/v) Acetic acid	70°C, 2h /HPLC	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.01
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Solution	Test condition/ Equipment	MDL	Test Result(s)					Limit
			1-11	1-12	1-13	1-14	1-15	
3% (w/v) Acetic acid	70°C, 2h /HPLC	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.01
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

3. As specified by client, only test the designated sample.

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4.4. Migration of BPA

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			3% (w/v) Acetic acid					
			1-1	1-2	1-3	1-4	1-5	
Migration of BPA	70°C, 2h / LC-MS-MS	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			3% (w/v) Acetic acid					
			1-6	1-7	1-8	1-9	1-10	
Migration of BPA	70°C, 2h / LC-MS-MS	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)						Limit
			3% (w/v) Acetic acid						
			1-11	1-12	1-13	1-14	1-15	1-16	
Migration of BPA	70°C, 2h / LC-MS-MS	0.05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05
Conclusion		/	Pass	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)

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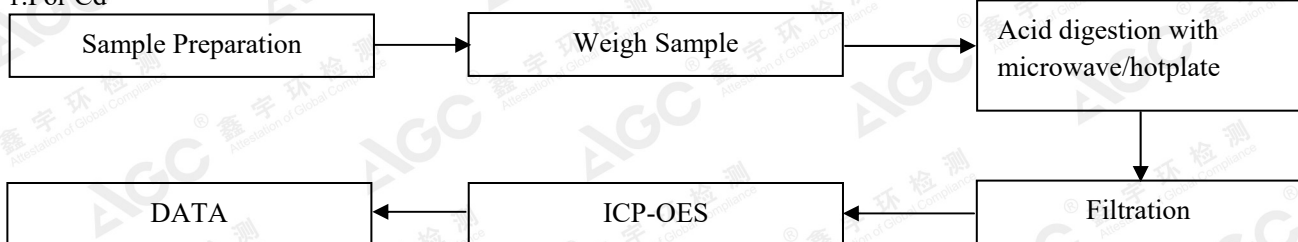
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Sample Description

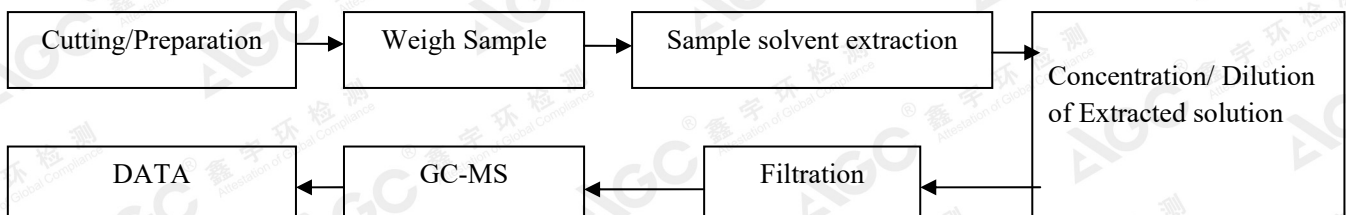
1	100% recyclable plastic drinking bottle (500ML)		
1-1	White plastic lid(PP)	1-9	Green nipple(TPR)
1-2	Green plastic lid(PP)	1-10	Blue nipple(TPR)
1-3	Blue plastic lid(PP)	1-11	Yellow nipple(TPR)
1-4	Yellow plastic lid(PP)	1-12	Orange nipple(TPR)
1-5	Orange plastic lid(PP)	1-13	Red nipple(TPR)
1-6	Red plastic lid(PP)	1-14	Pink nipple(TPR)
1-7	Pink plastic lid(PP)	1-15	White plastic body (HDPE)
1-8	White nipple(TPR)	1-16	White sealing ring(TPR)

Test Flow Chart

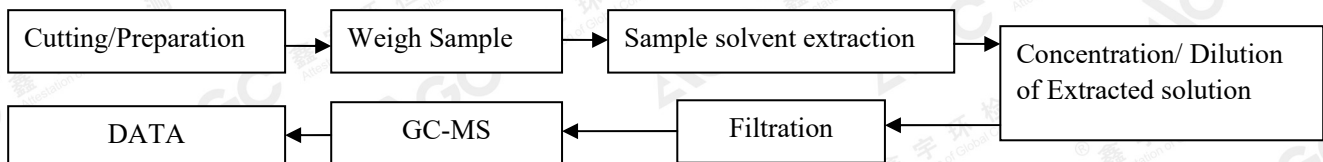
1. For Cd



2. For PAHs



3. For phthalates



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As client's request, add this report that the results are copied from report No.: AGC02928180401-001S2.

The photo of the sample



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AGC authenticate the photo on original report only

*** End of Report***

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