

Test Report

Report No.: AGC03507200510-001S1

Date: Jan.07, 2021

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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
Test site: 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : RPET bottle with SS lid
Model : MO9960, MO6237
Material : See Sample Description
Country of origin : CHINA
Country of destination : EUROPE
Vendor Code : 107978
Sample Receiving Date : May 26, 2020
Testing Period : May 26, 2020 to Jun.11, 2020

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

Liangdan, Jessie Liang

Technical Director



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Test Requested:

Conclusion

1. As specified by client, to determine the Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Pass

2. 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.

Pass

3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.

Pass

Part 1: RPET material

4. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution EU (No) 10/2011& (EU)2016/1416&(EU)2017/752 and (EU) 2018/213 for:

- Overall Migration(3%(w/v) Acetic acid, 10%(v/v) Ethanol)

Pass

-Migration of BPA

Pass

-Migration of Heavy metals

Pass

Part 2: Silicone material

5. As specified by client, to test sample with reference to Regulation 1935/2004/EC , Council of Europe Resolution AP (2004) 5 and (EU) 2018/213 for:

-Overall Migration(3%(w/v) Acetic acid, 10%(v/v) Ethanol)

Pass

-Migration of BPA

Pass

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No.18 C

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Test Results:

1. Test Result(s) of Pb:

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	10	N.D	N.D	N.D	N.D	N.D	500
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	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	10	N.D	N.D	N.D	10	500
Conclusion		/	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

2. Test Result(s) of Cd:

Test Item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	10	N.D	N.D	N.D	N.D	N.D	100
Conclusion		/	Pass	Pass	Pass	Pass	Pass	/

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Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-6	1-7	1-8	1-9	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	10	N.D	N.D	N.D	N.D	100
Conclusion		/	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

3. Test Result(s) of phthalates content:

Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-1	1-2	1-3	1-4	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	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.	0.1
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	N.D.	
Conclusion		/	Pass	Pass	Pass	Pass	/

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Unit: %,w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-5	1-6	1-7	1-8	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	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:**
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

Part 1: RPET

Test Result(s):

4.1 Test Result(s) of Overall Migration

Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)				Limit
			1-1	1-2	1-3	1-4	
3%(w/v) Acetic acid	40°C, 10d	5	N.D.	N.D.	N.D.	N.D.	10
10%(v/v) Ethanol	40°C, 10d	5	N.D.	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-5	1-6	1-7	
3%(w/v) Acetic acid	40°C, 10d	5	N.D.	N.D.	N.D.	10
10%(v/v) Ethanol	40°C, 10d	5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	/

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

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4.2.Migration of Heavy metals

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	
Aluminum(Al) (M)	40°C, 10d / ICP-OES	0.5	N.D.	N.D.	N.D.	N.D.	1
Barium (Ba) (M)		0.25	N.D.	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		0.5	N.D.	N.D.	N.D.	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	N.D.	N.D.	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	N.D.	N.D.	N.D.	5
Nickel (Ni) (M)		0.01	N.D.	N.D.	N.D.	N.D.	0.02
Conclusion			/	Pass	Pass	Pass	Pass

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% (w/v) Acetic acid			
			1-5	1-6	1-7	
Aluminum(Al) (M)	40°C, 10d / 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

4.3 Test result of Migration of BPA

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	
Migration of BPA	40°C, 10d/ LC-MS-MS	0.02	N.D.	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% (w/v) Acetic acid			
			1-5	1-6	1-7	
Migration of BPA	40°C, 10d/ LC-MS-MS	0.02	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Pass	Pass	Pass	/

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

2. MDL=method detection limit

Part 2: Silicone

5.1 Test Result(s) of Overall Migration

Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-8	
3%(w/v) Acetic acid	40°C, 10d	5	N.D.	10
10%(v/v) Ethanol	40°C, 10d	5	N.D.	10
Conclusion	/	/	Pass	/

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

2. MDL=method detection limit

5.2 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3% (w/v) Acetic acid	
			1-8	
Migration of BPA	40°C, 10d/ LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Pass	/

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

2. MDL=method detection limit

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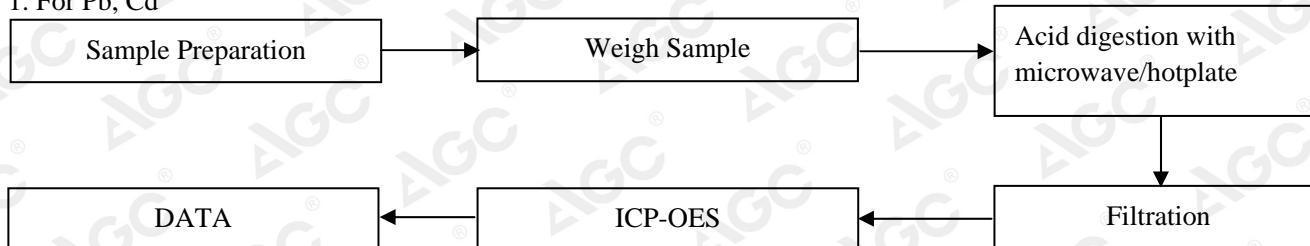
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Sample Description

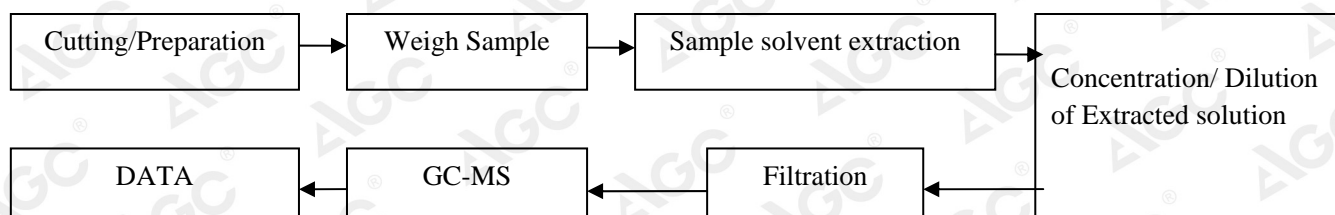
No.	Material	Description
1-1	RPET	Black bottle body
1-2	RPET	White bottle body
1-3	RPET	Blue bottle body
1-4	RPET	Orange bottle body
1-5	RPET	Green bottle body
1-6	RPET	Red bottle body
1-7	RPET	Black lid
1-8	/	Silicone ring
1-9	/	201 stainless steel

Test Flow Chart

1. For Pb, Cd



2. For phthalates



This report is to supersede the report with No.: AGC03507200510-001 dated on Jun.11, 2020.

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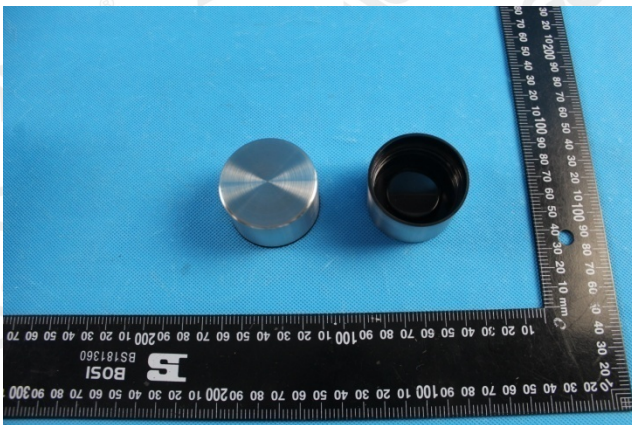
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The photo of the sample



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*** End of Report***

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