

Test Report

Report No.: AGC-03507-19-09-06-001

Date: Oct.09, 2019

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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: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : Glass bottle
Model No. : MO9800
Supplier : 107978
Country of origin : CHINA
Country of destination : EUROPE
Sample Received Date : Sep.17, 2019
Testing Period : Sep.17, 2019 to Oct.09, 2019

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 Lead and Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.
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.
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.
4. As specified by client, to test sample with reference to Regulation 1935/2004/EC and Council of Europe Resolution AP (2004) 5 and (EU) 2018/213 for silicone:
 - Overall Migration(3%(w/v) Acetic acid, 50% (v/v) Ethanol)
 - Migration of BPA
5. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Regulation (EU) No.10/2011&(EU)2016/1416&(EU) 2017/752 and (EU) 2018/213 for plastic:
 - Overall Migration(3%(w/v) Acetic acid, 50% (v/v) Ethanol)
 - Specific Migration of Heavy metals
 - Migration of BPA
6. As specified by client, to determine the Leachable Lead and Cadmium content in Glass Ware with reference to Regulation NO.84/500/EEC and 2005/31/EC.

Conclusion

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

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Test Result(s):
1. Test Result(s) of Lead and Lead compounds content

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
Lead (Pb)	IEC 62321-5:2013	10	15	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-7	1-8	1-9	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	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(s) of Cd:

Unit: mg/kg

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

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-4	1-5	1-6	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-7	1-8	1-9	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	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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3. Test result of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-2	1-3	1-4	1-5	
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

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-6	1-7	1-8	1-9	
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

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- 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

For silicone
4.1. Test result of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	Surface area/Volume	MDL	Test Result(s)	Limit
				1-2	
3%(w/v) Acetic acid	70°C, 2h	6 dm ² /1000 mL	5	N.D.	10
50% (v/v) Ethanol			5	N.D.	10
Conclusion	/	/	/	Pass	/

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

4.2. Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	Surface area/Volume	MDL	Result(s)	Limit
				3% (w/v) Acetic acid	
				1-2	
Migration of BPA	70°C, 2h / LC-MS-MS	6 dm ² /1000 mL	0.02	N.D.	0.05
Conclusion	/	/	/	Pass	/

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

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For plastic
5.1. Test result of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	Surface area/Volume	MDL	Test Result(s)	Limit
				1-3	
3%(w/v) Acetic acid	70°C, 2h	6 dm ² /1000 mL	5	N.D.	10
50% (v/v) Ethanol			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 Special Migration of Heavy metals

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	Surface area/Volume	MDL	Test Result(s)	Limit
				3% (w/v) Acetic acid	
				1-3	
Aluminum (Al) (M)	70°C, 2h / ICP-OES	6 dm ² /1000 mL	0.5	N.D.	1
Barium (Ba) (M)			0.25	N.D.	1
Cobalt (Co) (M)			0.01	N.D.	0.05
Copper (Cu) (M)			0.25	N.D.	5
Iron (Fe) (M)			0.25	N.D.	48
Lithium (Li) (M)			0.5	N.D.	0.6
Manganese (Mn) (M)			0.25	N.D.	0.6
Zinc (Zn) (M)			0.5	N.D.	5
Nickel (Ni) (M)			0.01	N.D.	0.02
Conclusion			/	/	/

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

2. M= Migration

3. MDL= method detection limit

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5.3. Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	Surface area/Volume	MDL	Result(s)	
				3% (w/v) Acetic acid	Limit
				1-3	
Migration of BPA	70°C, 2h / LC-MS-MS	6 dm ² /1000 mL	0.02	N.D.	0.05
Conclusion	/	/	/	Pass	/

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

2. MDL=method detection limit

For glass
6.1. Test Result(s) of Leachable Lead and Cadmium

Unit: mg/L

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	
			4% (v/v) Acetic acid	Client's Limit
			1-10	
Lead (Pb)	22°C, 24h ICP-OES	0.1	N.D.	4.0
Cadmium (Cd)		0.01	N.D.	0.3
Conclusion		/	Pass	/

Note : 1. MDL=method detection limit

2. N.D.=not detected (less than method detection limit)

3. Results shown above are testing data of four groups.

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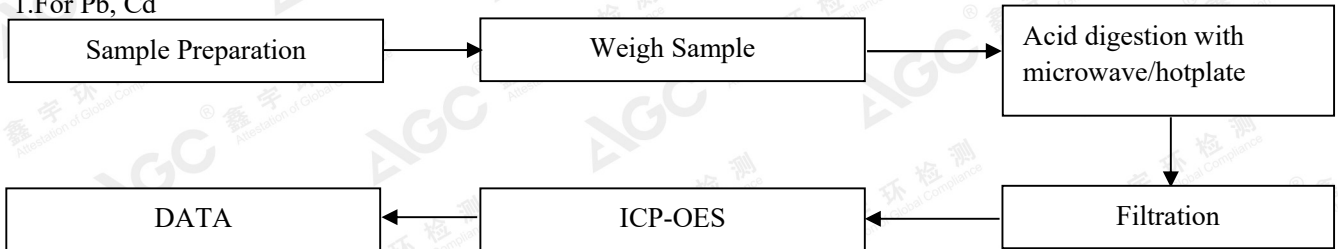
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Sample Description

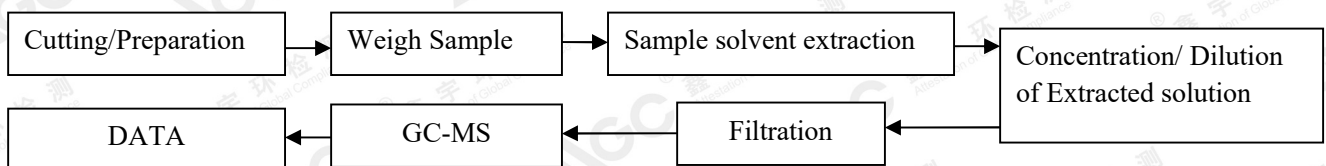
1-1	201 Stainless steel cover
1-2	Silicone ring
1-3	Gray PP cover
1-4	Black coating
1-5	White coating
1-6	Red coating
1-7	Orange coating
1-8	Blue coating
1-9	Green coating
1-10	Glass bottle body

Test Flow Chart

1. For Pb, Cd



2. For phthalates



Test result on specimen No.1-6, No.1-7 were resubmitted on Oct.08, 2019.

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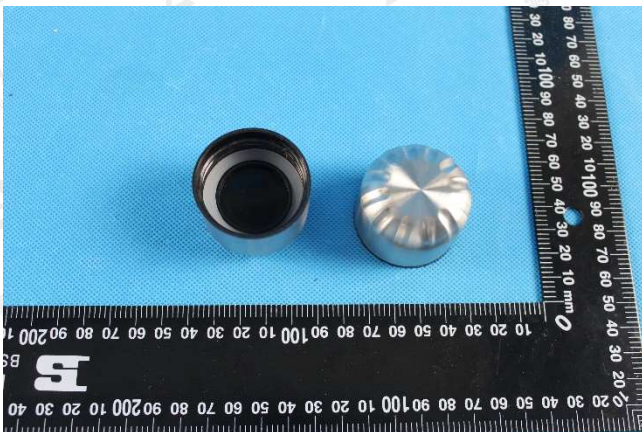
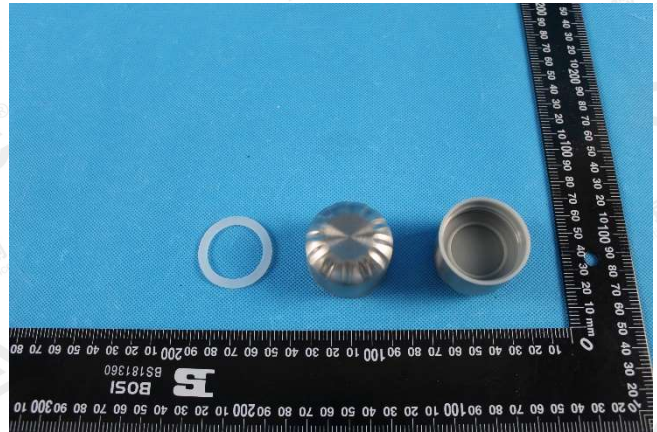
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The photo of the sample



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*** End of Report***

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