

Test Report

Report No.: AGC03507190504-001

Date: May 31, 2019

Page 1 of 10

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 : 500ML GLASS BOTTLE
Model No. : MO9746
Supplier : 107978
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Receiving Date : May 13, 2019
Testing Period : May 13, 2019 to May 31, 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 Report

Report No.: AGC03507190504-001

Date: May 31, 2019

Page 2 of 10

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, 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
5. 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
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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Test Report

Report No.: AGC03507190504-001
Date: May 31, 2019
Page 3 of 10
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	1-4	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	500
Conclusion		/	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-5	1-6	1-7	1-8	
Lead (Pb)	IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	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:

Unit: mg/kg

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

Unit: mg/kg

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

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Test Report

Report No.: AGC03507190504-001
Date: May 31, 2019

Page 4 of 10

- 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.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	Pass	/

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Report No.: AGC03507190504-001
Date: May 31, 2019
Page 5 of 10

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

For plastic

4.1. Test result 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	70°C, 2h	5	N.D.	N.D.	N.D.	N.D.	10
50% (v/v) Ethanol		5	N.D.	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Test Report

Report No.: AGC03507190504-001
Date: May 31, 2019
Page 6 of 10
Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-5	1-6	1-7	
3%(w/v) Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% (v/v) Ethanol		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

3. Test result on specimen No.1-7 was resubmitted on May 27, 2019.

4.2. Test result of Special 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)	70°C, 2h / 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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Test Report

Report No.: AGC03507190504-001

Date: May 31, 2019

Page 7 of 10

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)	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

4.3 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)				Limit
			3% (w/v) Acetic acid				
			1-1	1-2	1-3	1-4	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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No.18 C

Test Report

Report No.: AGC03507190504-001
Date: May 31, 2019

Page 8 of 10

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)			Limit
			3% (w/v) Acetic acid			
			1-5	1-6	1-7	
Migration of BPA	70°C, 2h/ 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

For silicone
5.1. Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-8	
3%(w/v) Acetic acid	70°C, 2h	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 Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	Limit
			3% (w/v) Acetic acid	
			1-8	
Migration of BPA	70°C, 2h/ 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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Test Report

Report No.: AGC03507190504-001
Date: May 31, 2019
Page 9 of 10
For glass
6. Test Result(s) of Leachable Lead and Cadmium

Unit: mg/L

Test Item(s)	Test condition/ Equipment	MDL	Result(s)				Limit
			4% (v/v) Acetic acid				
			1-9-A	1-9-B	1-9-C	1-9-D	
Lead (Pb)	22°C, 24h ICP-OES	0.1	N.D.	N.D.	N.D.	N.D.	4.0
Cadmium (Cd)		0.01	N.D.	N.D.	N.D.	N.D.	0.3
Conclusion		/	Pass	Pass	Pass	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.

Sample Description

1-1	Black cover
1-2	White cover
1-3	Red cover
1-4	Orange cover
1-5	Blue cover
1-6	Green cover
1-7	Dark blue cover
1-8	Silicone ring
1-9	Glass bottle body

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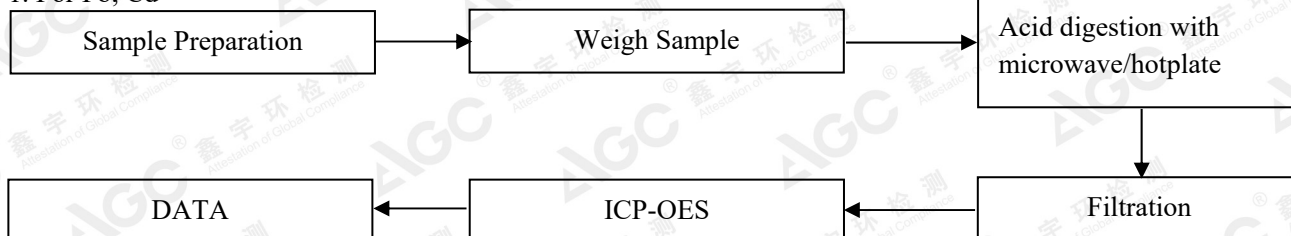
Report No.: AGC03507190504-001

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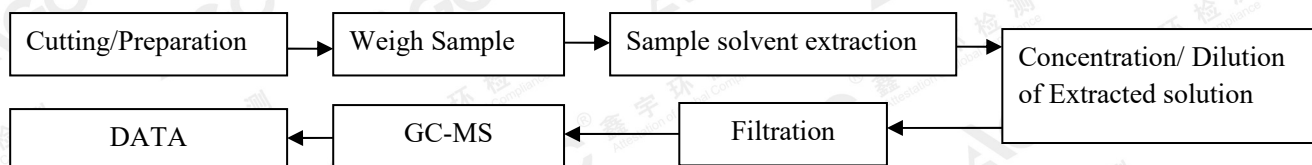
Page 10 of 10

Test Flow Chart

1. For Pb, Cd



2. For phthalates



The photo of the sample



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*** End of Report***

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