Report No.: AGC03507200510-001

AGC

Date: Jun.11, 2020

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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 su	ubmitted samples said to be:

Sample Name Model Material Country of origin Country of destination Vendor Code Sample Receiving Date **Testing Period**

- RPET bottle with SS lid MO9960
- See Sample Description
- **CHINA**
- EUROPE
- 107978
- May 26, 2020
- **Test Requested Test Method Test Result**
- Please refer to next page(s).

May 26, 2020 to Jun.11, 2020

- Please refer to next page(s).
- Please refer to next page(s).





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Test Requested:		Conclusion
1. As specified by client, to determine the Lead compou	inds content in the	
submitted sample(s) with reference to entry 63, Annex 2	XVII of the REACH Regulation	Pass
(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 Regu	lation (EC) No 1907/2006.	Pass
3. As specified by client, to determine the phthalates con-	ntent in the submitted sample(s) with	
reference to entry 51 and its amendment (EU)2018/2005	5& entry 52, Annex XVII of the REACH	Pass
Regulation (EC) No 1907/2006 and Amendment Regula	ation (EC) No 552/2009.	
Part 1: RPET material		
4. As specified by client, to test sample with reference to	o Regulation 1935/2004/EC, Council of	
Europe Resolution EU (No) 10/2011& (EU)2016/14168	&(EU)2017/752 and (EU) 2018/213 for:	
- Overall Migration(3%(w/v) Acetic acid, 10%(v/v) Eth	anol) ©	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	o 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) Etha	anol)	Pass
-Migration of BPA		Pass

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Test Results:

GC

1. Test Result(s) of Pb:

	R						Un	it: mg/kg
	Test Method/ Equipment	MDL	Result(s)					.
Test Item(s)			[©] 1-1	1-2	1-3	1-4	1-5	Limit
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	G T

	G					Un	it: mg/kg
	Test Method/ Equipment	MDL		.			
Test Item(s)			1-6	1-7	1-8	1-9	Limit
Lead (Pb)	IEC 62321-5:2013 ICP-OES	10	N.D	N.D	N.D	10 ®	500
Conclusion			Pass	Pass	Pass	Pass	I.C

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

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

1. MDL=Method Detection Limit Note:

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		
Togt Itom(g)	Test Method/	MDI	8	Rest	ılt(s)		T :mit
Test Item(s)	Equipment	MDL	1-1	1-2	1-3	1-4	Limit
Dibutyl phthalate (DBP)	SC NGC	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	EN 14372:2004	4	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	GC-MS	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)	- Ci	0.01	N.D.	N.D.	N.D.	N.D.	0 /
Sum of DNOP+DINP+DIDP		-	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	F. O		Pass	Pass	Pass	Pass	1

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	R			0	U	nit: %,w/w	
	Test Method/	MDI	C	Res	ult(s)		T :
Test Item(s)	Equipment	MDL	1-5	1-6	1-7	1-8	8
Dibutyl phthalate (DBP)	6	0.01	N.D.	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)	AGO AGC	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	EN 14372:2004		N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	
Di-isononyl phthalate (DINP)	8	0.01	N.D.	N.D.	N.D.	N.D.	8—
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	N.D.	-,0
Sum of DNOP+DINP+DIDP		G	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion			Pass	Pass	Pass	Pass	© / 🕨

1. MDL=Method Detection Limit Note:

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/am
Test Solution	Test condition	MDL	8	T inter			
			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	/	FC	Pass	Pass	Pass	Pass	P

Unit: mg/dm²

Test Solution	Test condition	MDI	®	Test Result(s)		T imit
1 est Solution		WIDL	1-5	1-6	1-7	Limit
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

8			Unit: r						
[®]		S		Test R	esult(s)				
Test Item(s)	Test condition/	MDL		3% (w/v) Acetic acid					
	Equipment	-C	1-1 ◎	1-2	1-3	1-4	GC		
Aluminum(Al) (M)	8 8	0.5	N.D.	N.D.	N.D.	N.D.	1		
Barium (Ba) (M)	N GC	0.25	N.D.	N.D.	N.D.	N.D.	<u>í</u>		
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)	40°C, 10d /	0.25	N.D.	N.D.	N.D.	N.D.	48		
Lithium (Li) (M)	ICP-OES	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)	Do ac	0.01	N.D.	N.D.	N.D.	N.D.	0.02		
Conclusion			Pass	Pass	Pass	Pass	27		

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	- C		Unit: mg/kg						
8	No of	1 - 6		Test Result(s					
Test Item(s)	Test condition/	MDL	3%	Limit					
AND NOU	Equipment	8	1-5	1-6	1-7	- 6			
Aluminum(Al) (M)		0.5	N.D.	N.D.	N.D.	1			
Barium (Ba) (M)	C C	0.25	N.D.	N.D.	N.D.	1			
Cobalt (Co) (M)	NO N	0.01	N.D.	N.D.	N.D.	0.05			
Copper (Cu) (M)	6	0.25	N.D.	N.D.	N.D.	5			
Iron (Fe) (M)	40°C, 10d /	0.25	N.D.	N.D.	N.D.	48			
Lithium (Li) (M)	ICP-OES	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)	C e	0.01	N.D.	N.D.	N.D.	0.02			
Conclusion		-CI	Pass	Pass	Pass	BP			

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

						U	nit: mg/kg
		8	®	Test R	esult(s)		- 6
Test Item(s)	Test condition/ Equipment	MDL	3% (w/v) Acetic acid			Limit	
		8	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	© 1

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s) 3% (w/v) Acetic acid			Limit
			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	C ®	1	Pass	Pass	Pass	E

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/um
Test Solution	Test condition	MDL -	Test Result(s)	Limit
Test Solution			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	R P

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

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

2. MDL=method detection limit

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Sample Description

No.	Material	Description	
1-1	RPET	Black bottle body	8
1-2	RPET	White bottle body	- G
1-3	RPET	Blue bottle body	
1-4	RPET ©	Orange bottle body	P. No
1-5	RPET	Green bottle body	ß
1-6	RPET	Red bottle body	GU C
1-7	RPET	Black lid	
1-8		Silicone ring	8
1-9	B C ®	201 stainless steel	e

Test Flow Chart



2. For phthalates

Cutting/Preparation	→ Weigh Sample	Sample solvent extraction	Concentration/ Dilution
			of Extracted solution
DATA	GC-MS	Filtration	

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The photo of the sample







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