

#### Report No.: AGC03507191105-001

Date: Nov.11, 2019

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Applicant:MID OCEAN BRANDS B.VAddress:7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong KongTest site:1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan<br/>District, Shenzhen, Guangdong, China

#### Report on the submitted samples said to be:

Sample Name	:	Glass tumbler
Model No.	:	MO9992
Supplier	:	107978
Country of origin	÷.	CHINA
Country of destination	Atte	EUROPE
Sample Received Date	:	Nov.05, 2019
Testing Period	:	Nov.05, 2019 to Nov.11, 2019
Test Requested:		Please refer to next page(s).
Test Method:		Please refer to next page(s).
Test Result.		Please refer to next $nage(s)$



Technical Director



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Test Requested:		Conclusion
1. As specified by client, to determine the Lead compour sample(s) with reference to entry 63, Annex XVII of t 1907/2006.		Pass
2. As specified by client, to determine the Cadmium(Cd with reference to entry 23, Annex XVII of the REACH 1		Pass
3. As specified by client, to determine the phthalates cor		THE ROAT
reference to entry 51 and its amendment (EU)2018/2005 REACH Regulation (EC) No 1907/2006 and Amendmen 4. As specified by client, to test sample with reference to	nt Regulation (EC) No 552/2009. o Regulation 1935/2004/EC and Council	Pass 1
of Europe Resolution AP (2004) 5 and (EU) 2018/213 fo - Overall Migration(3%(w/v) Acetic acid, 50% (v/v) I		Pass
- Migration of BPA		Pass
5. As specified by client, to determine the Leachable Lea with reference to Regulation NO.84/500/EEC and 2005/		Pass

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Test Result(s):

1. Test Result(s) of Pb:

		-ni		10	Unit: mg/kg
Test Method/		The tel and	Result(s)	annotance 6	Festation of Com
Test item(s) Equipment	MDL	1-1	1-2	1-3	– Limit
IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
ICP-OES	/ *	Pass	Pass	Pass	
	Equipment IEC 62321-5:2013	Equipment         MDL           IEC 62321-5:2013         10	Equipment         MDL         1-1           IEC 62321-5:2013         10         N.D.	Itest Wethod/ Equipment         MDL         1-1         1-2           IEC 62321-5:2013         10         N.D.         N.D.	Test Method/ Equipment         MDL         Result(s)           IEC 62321-5:2013         10         N.D.         N.D.           IEC 000000000000000000000000000000000000

C Tratalon of GO	C The stor of Cloba	C Atestation of C	GU	G		Unit: mg/kg
Test Method/		MDI		Result(s)		K HE THE
Test item(s) Equipment	MDL	1-4	1-5	1-6	- Limit	
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	C Y	Pass	Pass	Pass	150

**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:

12	He to the starte	Q R TolGIO	C 44	ation of	- C A	Unit: mg/kg
Test item(s) Test Method/ Equipment	Test Method/	MDL	GC im	Result(s)	30	Limit
	MDL	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	/

				12 Manalance	The Remonance	Jnit: mg/kg
Test item(s) Test Method. Equipment	Test Method/	MDL	C ALL	Result(s)	testation of Glov	Limit
	Equipment	WIDL	1-4	1-5	1-6	Linnt
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES		Pass	Pass	Pass	

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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

F Goldan F Goldal Cu		part -			Unit:	%, w/w		
Test Item(s)	Test Method/	MDL		Result(s)	AT THE	Limit		
Test Item(s)	Equipment	MDL	1-1	1-2	1-3	Linn		
Dibutyl phthalate (DBP)	and I the total	0.01	N.D.	N.D.	N.D.	0.1		
Butylbenzyl phthalate (BBP)				0.01	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)	50	0.01	N.D.	N.D.	N.D.	0.1		
Diisobutyl phthalate (DIBP)	the THE	0.01	N.D.	N.D.	N.D.	0.1		
Sum of DBP+BBP+DEHP+DIBP	EN 14372:2004	EN 14372:2004	not Globa	N.D.	N.D.	N.D.	0.1	
Di-n-octyl phthalate (DNOP)	GC-MS	0.01	N.D.	N.D.	N.D.	A Y		
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	Francisco al		
Di-isodecyl phthalate (DIDP)	The stand Conneline	0.01	N.D.	N.D.	N.D.	Itest		
Sum of DNOP+DINP+DIDP	C Austanon of	C -Mean	N.D.	N.D.	N.D.	0.1		
Conclusion		1	Pass	Pass	Pass	plance /		
	P	151 mance	1	nplitante	- F Gloud	8		

A DE THE	plance 6 5 ford	Global	C Thestation of Glou	- C	Unit:	%, w/w
Test Item(s)	Test Method/	MDL	Result(s)			Limit
Test Item(s)	Equipment	WIDL	1-4	1-5	1-6	
Dibutyl phthalate (DBP)		0.01	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP	EN 14372:2004	141 1000 - C	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	GC-MS	0.01	N.D.	N.D.	N.D.	
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	A THI
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	a.Contr
Sum of DNOP+DINP+DIDP		Englished Conne	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	/

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- **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 silicone

#### 4.1. Test result of Overall Migration

Test Solution				Test Result(s	5)	A Contractor
	Test condition	MDL	° 1-1 <sub>© 4</sub>	1-2	1-3	– Limit
3%(w/v) Acetic acid	70%C 2h	5	N.D.	N.D.	N.D.	10
50% (v/v) Ethanol	70°C, 2h	5	N.D.	N.D.	N.D.	10
Conclusion	/	a 🏥 /	Pass	Pass	Pass	B Standy Color

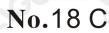
Unit: mg/dm<sup>2</sup>

Trad Saladan	Test condition	MDI	Т	T intit		
Test Solution	Test condition	MDL -	1-4	1-5	1-6	Limit
3%(w/v) Acetic acid		5	N.D.	N.D.	N.D.	10
50% (v/v) Ethanol	70°C, 2h	5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	E Starte Poor

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

- 2. MDL=method detection limit
- 3. Surface area/Volume=6 dm<sup>2</sup>/1L

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#### 4.2. Test result of Migration of BPA

Test Item(s)	Test condition/ Equipment	MDL	3%	Result(s) (w/v) Acetic	acid	Unit: mg/kg
F Harden Company F In	C	C B	1-1	1-2	1-3	
Migration of BPA	70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	N.D.	0.05
Conclusion	T	The the parts	Pass	Pass	Pass	GG M

Unit: mg/kg

I Init.

Test Item(s)				Result(s)	Narree .	
	Test condition/ Equipment	MDL	3% (w/v) Acetic acid			Limit
			1-4	1-5	1-6	
Migration of BPA	70°C, 2h / LC-MS-MS	0.02	N.D.	N.D.	N.D.	0.05
Conclusion	1 I	oba Complete	Pass	Pass	Pass	1

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

- 2. MDL=method detection limit
- 3. Surface area/Volume= $6 \text{ dm}^2/1\text{L}$

#### For glass

#### 5. Test Result(s) of Leachable Lead and Cadmium

		MDL		Unit: mg/L			
Test Item(s)	Test condition/ Equipment		C Beneficial	Limit			
			1-7-A	1-7-B	1-7-C	1-7-D	
Lead (Pb)		0.1	N.D.	N.D.	N.D.	N.D.	4.0
Cadmium (Cd)	22°C, 24h ICP-OES	0.01	N.D.	N.D.	N.D.	N.D.	0.3
Conclusion		1	Pass	Pass	Pass	Pass	The land

**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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4. Surface area/Volume=6 dm<sup>2</sup>/1L

#### **Sample Description**

1-1	Black silicone	C
1-2	White silicone	
1-3	Red silicone	. 13
1-4	Yellow silicone	Attestatio
1-5	Blue silicone	
1-6	Green silicone	
1-7	Glass bottle body	

#### **Test Flow Chart**

1.For Pb, Cd Sample Preparation	Weigh Sample		Acid digestion with microwave/hotplate
DATA	ICP-OES	The Party of the P	Filtration
	The area of the second con the second con	Finot Global CC	C Mesulo

#### 2. For phthalates

Cutting/Preparation	<b> </b>	Weigh Sample	┣►	Sample solvent extraction			Concentration/ Dilution	
	. 1	W. Augusta Market Ma			The Complete	4	310	of Extracted solution
DATA	Comple	GC-MS	-	8	Filtration	A Standard	n <sup>o.</sup>	

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### The photo of the sample



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