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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 : Double wall vacuum insulated bottle

Model No. : MO9810
Supplier : 107978
Country of origin : CHINA
Country of destination : EUROPE

country of desimation . Ecrost E

Sample Received Date : Sep.18, 2019

Testing Period : Sep.18, 2019 to Sep.24, 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:	Conclusion
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.	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	Pass
REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009. 4. As specified by client, to test sample with reference to food for compliance with Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9. for metal:	
- Extractable heavy metal	Pass
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)	Pass
- Migration of BPA	Pass
6. 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)	Pass
- Specific Migration of Heavy metals	Pass
- Migration of BPA	Pass

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Test Result(s):

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

Unit: mg/kg

	Test Method/	MDI	The tompliance	The Man Comp	Result(s)	® Mestation	r of Gio	
Test item(s)	Equipment	MDL	1-1	1-2	1-3	1-4	1-5	Limit
Lead (Pb)	IEC 62321-5:2013	10	16	19	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	/	Pass	Pass	Pass	Pass	Pass	To state

Unit: mg/kg

Togt itom(s)	Test Method/	MDI			Result(s)			· 玩惊	T ::4
Test item(s)	Equipment	MDL	1-6	1-7	1-8	1-9	1-10	1-11	Limit
Lead (Pb)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	ICP-OES	1	Pass	Pass	Pass	Pass	Pass	Pass	到檀

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

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

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Unit: mg/kg

To and the state of Calabata	Test Method/		Result(s)						拉河
Test item(s)	Equipment	MDL -	1-6	1-7	1-8	1-9	1-10	1-11	Limit
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	1	Pass	Pass	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 of phthalates content

Unit: %, w/w

Test Method/ Equipment	MDI		Limit		
	MIDL	1-3	1-4	1-5	
T. Kananana	0.01	N.D.	N.D.	N.D.	0.1
© Attestation of Glouw	0.01	N.D.	N.D.	N.D.	0.1
, Sec	0.01	N.D.	N.D.	N.D.	0.1
	0.01	N.D.	N.D.	N.D.	0.1
EN 14372:2004	_ 0 4	N.D.	N.D.	N.D.	0.1
GC-MS	0.01	N.D.	N.D.	N.D.	
	0.01	N.D.	N.D.	N.D.	F TO COOP OF
To Hamos	0.01	N.D.	N.D.	N.D.	de tation of
on of Ciobal Co ©	Allesiation of	N.D.	N.D.	N.D.	0.1
NG C	/	Pass	Pass	Pass	/
	Equipment EN 14372:2004	Equipment 0.01 0.01 0.01 0.01 0.01 0.01 EN 14372:2004 GC-MS 0.01 0.01	Equipment MDL 0.01 N.D. 0.01 N.D.	Equipment MDL 1-3 1-4 0.01 N.D. N.D. 0.01 N.D. N.D. 0.01 N.D. N.D. 0.01 N.D. N.D. EN 14372:2004 — N.D. N.D. GC-MS 0.01 N.D. N.D. 0.01 N.D. N.D. N.D. 0.01 N.D. N.D. N.D. - N.D. N.D. N.D.	Total Name Tot

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Unit: %, w/w

Test Item(s)	Test Method/	MDL		Result(s)			
Test Item(s)	Equipment	MIDL	1-6	1-6 1-7		- Limit	
Dibutyl phthalate (DBP)	(a) The stand County	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	© Alleste	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.	Compliance _	
Di-isodecyl phthalate (DIDP)	T. British T.	0.01	N.D.	N.D.	N.D.	C	
Sum of DNOP+DINP+DIDP	(Clobal C Allestation of	- C	N.D.	N.D.	N.D.	0.1	
Conclusion		1	Pass	Pass	Pass	1, 18	

Unit: %, w/w

Test Item(s)	Test Method/	MDL	100	Limit			
Test Item(s)	Equipment	MIDL	1-9	1-10	1-11	Limit	
Dibutyl phthalate (DBP)		0.01	N.D.	N.D.	N.D.	0.1	
Butylbenzyl phthalate (BBP)	onco (S) A Top of Glob	0.01	N.D.	N.D.	N.D.	0.1	
Di- (2-ethylhexyl) phthalate (DEHP)	CO TO	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	水流	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.	_	
Di-isodecyl phthalate (DIDP)	100	0.01	N.D.	N.D.	N.D.	© ##	
Sum of DNOP+DINP+DIDP	· The territories	-0 4	N.D.	N.D.	N.D.	0.1	
Conclusion	® ## Globb	GP	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

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For metal

4.1. Test result of Extractable heavy metal

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s) 1st + 2nd extractives 1-2	Limit
Barium (Ba)	· · · · · · · · · · · · · · · · · · ·	0.1	⊚ N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)	0.5% citric acid, 70°C, 2h	0.005	N.D.	0.07
Nickel (Ni)	ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		60	Pass	/

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Unit: mg/kg

				Unit: mg/kg
(Company)	Test condition/		Test Result(s)	
Test Item(s)	Equipment	MDL	3 rd extractives	Limit
	Equipment	Had Compliant	1-2	(B) Attestation O'
Barium (Ba)	ompliance (8) Milestation	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)	C Financia	0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)	TK 10 Million	0.1	N.D.	Juan of Gab
Aluminum (Al)	® Samuel Colonal Co	0.1	N.D.	5
Lithium (Li)	CC C	0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	0.5% citric acid, 70°C, 2h	0.005	N.D.	0.01
Nickel (Ni)	ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)	TK Hambaro	0.002	N.D.	0.002
Molybdenum (Mo)	© Finestion of Ciclosian C	0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)	double of the control	0.01	N.D.	0.04
Mercury (Hg)	CO "	0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	The Complance of the State of t	0.01	N.D.	0.01
Conclusion	Mestalion of Allesta		Pass	1

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Note:

- 1. N.D.=Not Detected(less than method detection limit)
- 2. MDL= method detection limit
- 3. As specified by client, only test the designated sample.

Remark:

Results from all three extractives are to be considered for compliance:

- (1). Result of 3rd extractive shall not exceed the SRL;
- (2). Sum of result of 1st and 2nd extractives shall not exceed 7 times of SRL

For silicone

5.1. Test result of Overall Migration

Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit	
1 est Solution	1 est condition	MIDL States	1-3		
3%(w/v) Acetic acid	7000 21	5	N.D.	10	
50% (v/v) Ethanol	70°C, 2h	5	N.D.	© 10 va coorda	
Conclusion	® Annot Global com	(S) A Clobal Control Control	Pass	9 1	

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) 3% (w/v) Acetic acid	Limit
Codul Compliance (S. Albertalino d'Color	.C	C C	1-3	
Migration of BPA	70°C, 2h / LC-MS-MS	0.02	N.D.	0.05
Conclusion	E The Commission / F The Country	Attestation	Pass	

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

2. MDL=method detection limit

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For plastic

6.1. Test result of Overall Migration

Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
3%(w/v) Acetic acid	70°C, 2h	5	5.9	10
50% (v/v) Ethanol		5	N.D.	10
Conclusion	Manuface / Filed	mpliants (8) Alteration	Pass	O7

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

2. MDL=method detection limit

6.2. 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	
Barium (Ba) (M)	70°C, 2h / ICP-OES	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	1	/	Pass	The Complete

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

2. M= Migration

3. MDL= method detection limit

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6.3. Test result of Migration of BPA

Unit: mg/kg

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

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

2. MDL=method detection limit

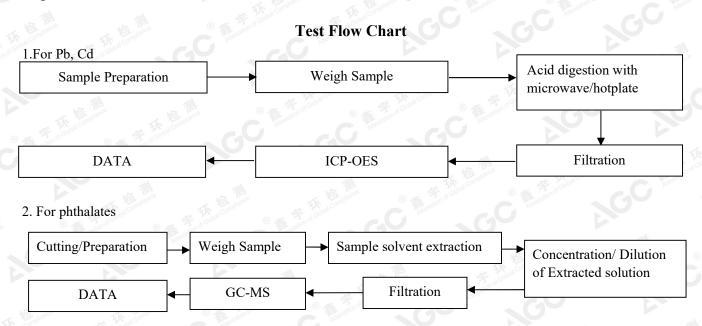
Sample Description

1-1	S/S 201
1-2	S/S 304
1-3	Silicone ring
1-4	Black PP cover
1-5	Black coating
1-6	White coating
1-7	Red coating
1-8	Yellow coating
1-9	Blue coating
1-10	Orange coating
1-11	Purple coating

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This report is to supersede the report with No.: AGC-03507-19-09-08-001 dated on Sep.24, 2019.

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The photo of the sample







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AGC authenticate the photo on original report only ** End of Report***

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