

Test Report

Report No.: AGC03507181004-001S2

Date: Nov.22, 2018

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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

Report on the submitted samples said to be:

Sample Name : 4pcs wine set in bamboo stand

Model : MO9523

Manufacturers : 107978

Sample Receiving Date : Oct.10, 2018

Testing Period : Oct.10, 2018 to Nov.21, 2018

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: 

Liulnwen, Lewis

Technical Director



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Test Requested:

1. 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.
2. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 & 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 .
3. As specified by client, to determine the Formaldehyde content in the submitted sample .
4. 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.
5. As specified by client, to determine the BPA content in the submitted sample.
6. As specified by client, to test sample with reference to Regulation 1935/2004/EC and Council of Europe Resolution AP (2004) 5 for silicone and TPR:
 - Overall Migration(3%(w/v) Acetic acid, 50% (v/v) Ethanol)
7. 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

Conclusion

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 Cd:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-3	1-4	1-6	
Cadmium (Cd)	Refer to EN1122:2001	5	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
			1-1	1-5	1-7	1-8	
Cadmium (Cd)	Refer to EPA 3050B:1996	5	10	N.D.	N.D.	N.D.	100
Conclusion	&EPA 6010C:2007 ICP-OES	/	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
 - 4.Results of 1-6, 1-7, 1-8 refer to 1-6, 1-3, 1-1 of test report AGC03507180853-001 respectively.

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2. Test result of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-3		
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.		—
Butylbenzyl phthalate (BBP)		0.01	N.D.		
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.		
Sum of DBP+BBP+DEHP		—	N.D.		0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.		—
Di-isononyl phthalate (DINP)		0.01	N.D.		
Di-isodecyl phthalate (DIDP)		0.01	N.D.		
Sum of DNOP+DINP+DIDP		—	N.D.		0.1
Di-iso-butyl phthalate (DIBP)*		0.1	N.D.		/
Conclusion		/		Pass	/

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-4	1-6	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	—
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	
Sum of DBP+BBP+DEHP		—	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	—
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	0.1
Di-iso-butyl phthalate (DIBP)*		0.1	N.D.	N.D.	/
Conclusion		/		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
 - 6.*= As specified by client, this item is extra testing, this item is not included in above test requested.

3. Test Result(s) of Formaldehyde

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Client's requirement
			1-2	
Formaldehyde	Refer to EN717-3:1996 UV-Vis	1	N.D.	80
Conclusion		/	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)

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4. Test result of Lead and Lead compounds content

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-3	1-4	1-6	
Lead (Pb)	Refer to EPA 3052-1996& EPA 6010C-2007 ICP-OES	5	N.D.	48	N.D.	500
Conclusion		/	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-5	1-7	1-8	
Lead (Pb)	Refer to EPA 3050B-1996& EPA 6010C-2007 ICP-OES	5	23	16	15	500
Conclusion		/	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

5. Test result of BPA content

Unit: mg/kg

Test Item	Test Method/ Equipment	MDL	Result(s)		Limit
			1-3	1-6	
BPA	Refer to EPA 3540C:1996& EPA8321B:2007 LC-MS-MS	0.1	N.D.	N.D.	0.1
Conclusion		/	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
 4. Test result on specimen No.1-3 was resubmitted sample on Nov.19, 2018.

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EU food contact materials
For silicone and TPR
6. Overall Migration

Unit: mg/kg

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-3	
50% (v/v) Ethanol	40°C, 10d	20	N.D.	60
3%(w/v) Acetic acid		20	N.D.	60
Conclusion	/	/	Pass	/

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-6	
50% (v/v) Ethanol	40°C, 10d	5	N.D.	10
3%(w/v) Acetic acid		5	N.D.	10
Conclusion	/	/	Pass	/

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

2. MDL=method detection limit

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For metal
7. Test result of Specific migration of heavy metal from metal and alloys

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-1	
			1 st + 2 nd extractives	
Barium (Ba)	Artificial Tap water, 70°C, 2h ICP-MS	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)		0.005	N.D.	0.07
Nickel (Ni)		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		/	Pass	/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-1	
			3 rd extractives	
Barium (Ba)	Artificial Tap water, 70°C, 2h ICP-MS	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	0.01	N.D.	0.01	
Conclusion		/	Pass	/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-7	
			1 st + 2 nd extractives	
Barium (Ba)	Artificial Tap water, 40°C, 10d ICP-MS	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)		0.005	N.D.	0.07
Nickel (Ni)		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		/	Pass	/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-7	
			3 rd extractives	
Barium (Ba)	Artificial Tap water, 40°C, 10d ICP-MS	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	0.01	N.D.	0.01	
Conclusion		/	Pass	/

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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:

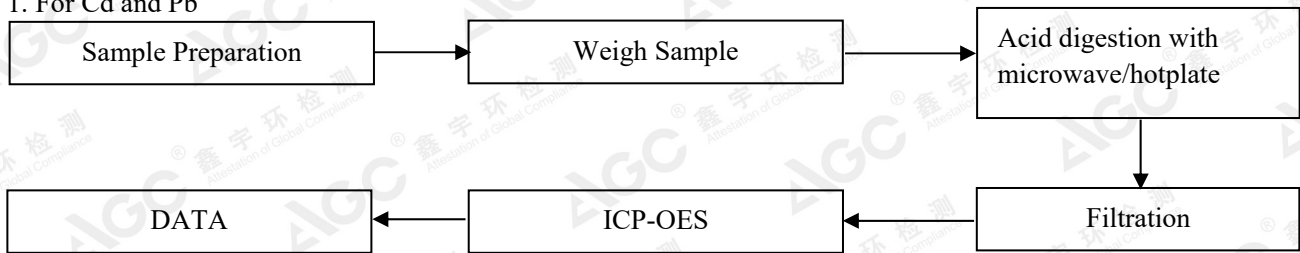
- (1). Result of 3rd extractive shall not exceed the SRL;
- (2). Sum of result of 1st and 2nd extractives shall not exceed 7 times of SRL.

Sample Description

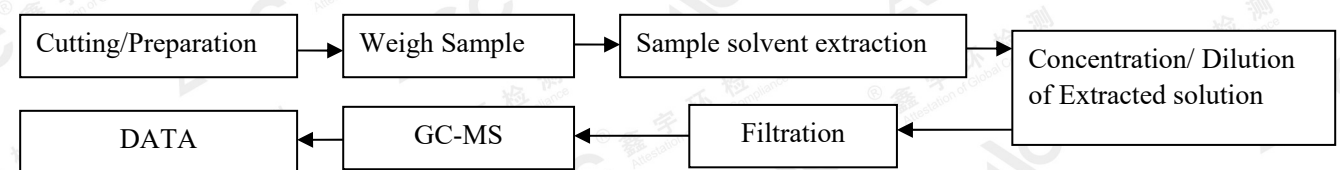
1-1	Metal stopper
1-2	Wood
1-3	Stopper black silicone
1-4	Black clip
1-5	Clip upper screw
1-6	Pourer black silicone
1-7	Pourer metal
1-8	Knife

Test Flow Chart

1. For Cd and Pb



2. For phthalates



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This report is to supersede the report with No.: AGC03507181004-001S1 dated on Nov.21, 2018.
The test results of No.1-1 copied from test results of No.1-4 of report No.: AGC03507180853-001.

The photo of the sample



1



2



3

AGC03507181004-001S2

AGC authenticate the photo on original report only

*** End of Report***

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