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# Test Report

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Report No. : AGC05443220307-001S1

**SAMPLE NAME** : Double wall stainless steel mug with PP handle  
**MODEL NAME** : MO6600  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Mar.25, 2022

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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 submitted sample(s) said to be:**

Sample Name : Double wall stainless steel mug with PP handle  
 Model : MO6600  
 Vendor code : 115253  
 Country of Origin : CHINA  
 Country of Destination : EUROPE  
 Sample Received Date : Mar.08, 2022(No.1-1 to No.1-3)  
 Mar.22, 2022(No.1-4)  
 Testing Period : Mar.08, 2022 to Mar.21, 2022(No.1-1 to No.1-3)  
 Mar.22, 2022 to Mar.25, 2022(No.1-4)

**Test Requested:**

<b>Test Requested:</b>	<b>Conclusion</b>
1. As specified by client, to determine for mechanical dishwashing safe test.	/
2. As specified by client, to determine the Lead (Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	<b>Pass</b>
3. 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.	<b>Pass</b>
4. 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.	<b>Pass</b>
5. As specified by client, to determine Specific migration of heavy metal from metal and alloys used in contact with food for compliance with Regulation (EC) No 1935/2004 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res (2013)9.	<b>Pass</b>

 Approved by: Reed

Qinlianzhi, Reed

Laboratory Supervisor

 Approved by: Jessie.Liang

Liangdan, Jessie.Liang

Technical Director

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**Test Result:**
**1. Test Result of mechanical dishwashing safe test:**

Test method: AGC in-house method (reference to BS EN 12875-1:2005)

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1 (One) pc(s).

Number of control sample: 1 (One) pc(s).

For all tested plastic and metal articles:

- 1) No visible change of color, gloss and clouding was found on the tested samples after wash.
- 2) No visible deposit or iridescent layer was found on the tested samples after wash.
- 3) No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

**2. Test Result of Lead(Pb) Content**

<b>Test Item</b>	Lead(Pb) (CAS No.: 7439-92-1)
<b>Limit(mg/kg)</b>	<500
<b>MDL(mg/kg)</b>	10
<b>Test Method/ Instrument</b>	IEC 62321-5:2013/ ICP-OES

No.	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-3	N.D.	Conformity
1-4 <sup>△</sup>	N.D.	Conformity

**3. Test Result of Cadmium(Cd) Content**

<b>Test Item</b>	Cadmium(Cd) (CAS No.: 7440-43-9)
<b>Limit(mg/kg)</b>	<100
<b>MDL(mg/kg)</b>	10
<b>Test Method/ Instrument</b>	IEC 62321-5:2013/ ICP-OES

No.	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-3	N.D.	Conformity
1-4 <sup>△</sup>	N.D.	Conformity

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**4. Test Result of Phthalates Content**

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0; 68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

Test point	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<b>Conformity</b>
1-4 <sup>△</sup>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<b>Conformity</b>

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**5. Test Result(s) of Specific migration of heavy metal:**

Test Method: With reference to EDQM Technical Guide on Metals and alloys used in food contact materials 2013.

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1 <sup>st</sup> + 2 <sup>nd</sup> extractives	
			1-2	
Barium (Ba)	0.5% citric acid, 70°C, 2h ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	3.374	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	0.106	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (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	0.144	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	
<b>Conclusion</b>		/	<b>Conformity</b>	/

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Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3 <sup>rd</sup> extractives	
			1-2	
Barium (Ba)	0.5% citric acid, 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	0.528	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	0.025	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminium (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	0.026	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	
<b>Conclusion</b>		/	<b>Conformity</b>	/

**Note:**

mg/kg = milligram per kilogram

MDL = Method Detection Limit

N.D.=Not Detected (less than method detection limit)

mg/L= milligrams per litre

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**Remark:**

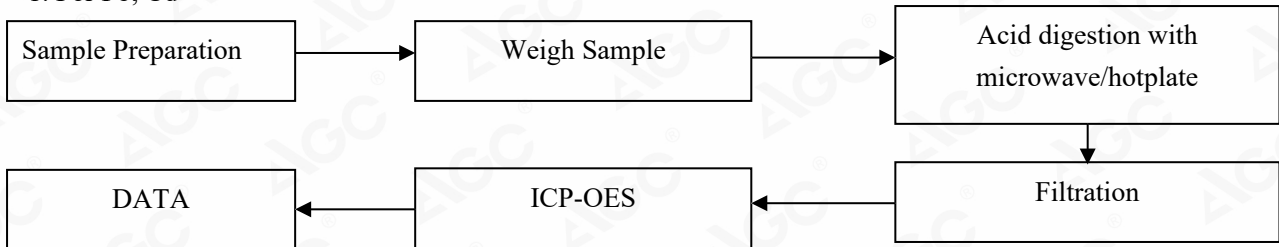
- As specified by client, only test the designated sample.
- △= As specified by client, the submitted samples were mixed to test.

**Sample Description:**

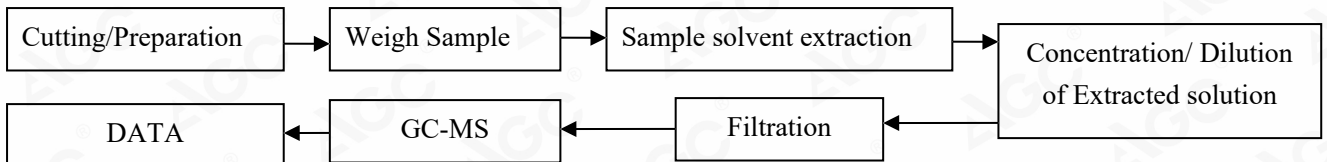
1-1	Outer S/S 201
1-2	Inner S/S 304
1-3	Black PP handle
1-4	Black coating + white coating + blue coating

**Test Flow Chart**

1. For Pb, Cd



2. For Phthalates



This report is to supersede the report with No.: AGC05443220307-001 dated on Mar.21, 2022.

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**The photo of the sample**



**AGC05443220307-001S1**

AGC authenticate the photo only on original report

\*\*\* End of Report \*\*\*

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