
Test Report

Report No. : AGC03507201101-001

SAMPLE NAME : Kids tritan bottle
MODEL NAME : MO9909
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to follow page(s).
DATE OF ISSUE : Nov.09, 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 submitted sample(s) said to be:

Sample Name : Kids tritan bottle
Model : MO9909
Vendor Code : 107978
Sample Received Date : Nov.03, 2020
Testing Period : Nov.03, 2020 to Nov.09, 2020

Approved by: Reed

Qinlian zhi, Reed

Laboratory Supervisor

Approved by: Jessie Liang

Liangdan, Jessie.Liang

Technical Director

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Test Requested:

Conclusion

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. 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. 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. 3. 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. 4. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution EU (No) 10/2011& (EU)2016/1416&(EU)2017/752 and (EU) 2018/213 for:
 -Overall Migration (3% Acetic acid, 50% Ethanol)
 - Migration of Heavy metals
 - Migration of BPA 5. As specified by client, to test sample with reference to Regulation 1935/2004/EC , Council of Europe Resolution AP (2004) 5 for:
 -Overall Migration(3% Acetic acid, 50% Ethanol)
 - Migration of BPA 6. As specified by client, to determined for mechanical dishwashing safe test. 7. As specified by client, to determined for microwave test. | <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>/</p> <p>/</p> |
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Test Result:
1. 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%	

No.	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

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2. Test Result of Cadmium(Cd) Content

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

No.	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity
1-7	N.D.	Conformity
1-8	N.D.	Conformity
1-9	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity
1-12	N.D.	Conformity
1-13	N.D.	Conformity
1-14	N.D.	Conformity

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3. Test Result of Lead(Pb) Content

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

No.	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4	N.D.	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity
1-7	N.D.	Conformity
1-8	N.D.	Conformity
1-9	N.D.	Conformity
1-10	N.D.	Conformity
1-11	N.D.	Conformity
1-12	N.D.	Conformity
1-13	N.D.	Conformity
1-14	N.D.	Conformity

Note:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

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

%= percentage

Remark:

- As specified by client, only test the designated sample.

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4.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)						Limit
			1-1	1-2	1-3	1-4	1-5	1-6	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
50% Acetic acid		5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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

2. MDL=method detection limit

4.2 Migration of Heavy metals

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% Acetic acid			
			1-1	1-2	1-3	
Aluminum(Al) (M)	70°C, 2h / ICP-OES	0.5	N.D.	N.D.	N.D.	1
Barium (Ba) (M)		0.25	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		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)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion		/	/	Pass	Pass	Pass

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% Acetic acid			
			1-4	1-5	1-6	
Aluminum(Al) (M)	70°C, 2h / ICP-OES	0.5	N.D.	N.D.	N.D.	1
Barium (Ba) (M)		0.25	N.D.	N.D.	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe) (M)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li) (M)		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)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion			/	Pass	Pass	Pass

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

Unit: mg/kg

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

Note: 1. N.D.=Not Detected (less than method detection limit)

2. MDL=method detection limit

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5.1 Test Result(s) of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-12	1-13	1-14	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% Ethanol	70°C, 2h	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

5.2 Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			3% Acetic acid			
			1-12	1-13	1-14	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	N.D.	N.D.	0.05
Conclusion	/	/	Pass	Pass	Pass	/

Note: 1. N.D.=Not Detected (less than method detection limit)

2. MDL=method detection limit

6. Test Result of mechanical dishwashing safe test

Sample 1: Kids tritan bottle

Test details:

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

Washing temperature: 60°C

Number of cycle: Five (5) cycles

Number of tested sample: Four (4) pc(s)

Number of control sample: Four (4) pc(s)

Test results

For all tested plastic 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.

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7. Test Result of microwave test

Sample 1: Kids tritan bottle

Test method: Refer to EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: Four (4) samples per color per style

Number of control sample: Four (4) sample per color per style

Test results

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1.(White)	41.1°C	68.1°C
2.(Red)	43.4°C	71.1°C
3.(Green)	39.1°C	65.2°C
4.(Blue)	45.1°C	74.2°C

For all tested plastic articles

- 1) No visible cracking and colour change was found on the tested samples.
- 2) No visible melting, deformation, suitability for re-use and charring was found on the tested samples.

Sample Description:

1	Kids tritan bottle
1-1	Transparent plastic bottle body
1-2	Pink plastic bottle body
1-3	Blue plastic bottle body
1-4	Green plastic bottle body
1-5	Transparent pipette
1-6	Grey plastic cover
1-7	Light gray plastic handle
1-8	White plastic
1-9	Pink plastic
1-10	Blue plastic
1-11	Green plastic
1-12	Silicone ring
1-13	Silicone nozzle
1-14	Small silicone plug

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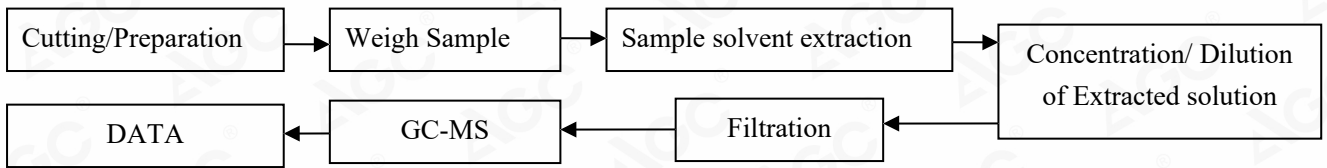
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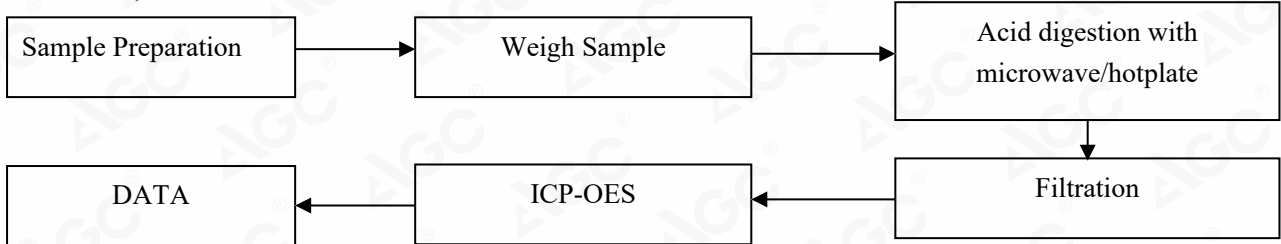


Test Flow Chart

1. For Phthalates



2. For Cd, Pb



The photo of the sample



AGC03507201101-001

AGC authenticate the photo only on original report

*** End of Report ***

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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