

# Test Report

No. NGBHG1802756101

Date: 13 Jun 2018

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MID OCEAN BRANDS B.V.

UNIT 201, 2/F., LAFORD CENTRE, 838 LAI CHI KOK ROAD, CHEUNG SHA WAN, KOWLOON, HONG KONG.

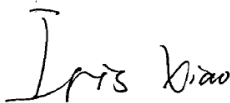
The following sample(s) was/were submitted and identified on behalf of the clients as : MO9448

SGS Job No. : NBHL1806008434CW - NB  
 Country of Origin : CHINA  
 Country of Destination : EUROPE  
 Style No. : MO9448  
 Date of Sample Received : 05 Jun 2018  
 Testing Period : 05 Jun 2018 - 11 Jun 2018  
 Test Requested : Selected test(s) as requested by client.  
 Test Method : Please refer to next page(s).  
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Overall migration(sample 001)	PASS
Overall migration(sample 002)	PASS
Specific migration of heavy metal(sample 001)	PASS
Extractable heavy metals(sample 003)	PASS

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch



Iris Xiao  
 Approved Signatory



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SGS-CSTC Standards Technical Services Co., Ltd.  
 Ningbo Branch Chemical Laboratory

15/F West of Building 4, Lingyun Industry Park, No.1177 Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China 315040 t E&E (86-574)89070249  
 中国·浙江·宁波市国家高新区凌云路1177号凌云产业园4号楼西1-5层 邮编: 315040 t HL (86-574)89070271 t ML (86-574)89070242 e sgs.china@sgs.com

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB18-027561.001	Black plastic lid	PP
SN2	NGB18-027561.002	Milky silicone rubber ring	SILICONE RUBBER
SN3	NGB18-027561.003	Silvery stainless steel bottle	STAINLESS STEEL

Remarks :

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected ( < MDL)

**Overall migration(sample 001)**

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3: 2002 aqueous food simulants by total immersion method.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
50% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup> .
- (2) Test condition & simulant were specified by client.

**Overall migration(sample 002)**



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Test Requested : In accordance with Council of Europe Resolution AP (2004) 5, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3: 2002 aqueous food simulants by total immersion method.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Overall Migration</u>
3% Acetic acid (W/V) aqueous solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
50% Ethanol (V/V) aqueous solution	2.0hr(s)	70°C	10mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm<sup>2</sup>.
- (2) Test condition & simulant were specified by client.

### Specific migration of heavy metal(sample 001)

Test Requested : In accordance with Commission Regulation (EU) 2017/752 amending Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, to determine specific migration of heavy metal.

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES.

### Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70 °C 2.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/volume	-	dm <sup>2</sup> /kg	-	6.0
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND



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Zinc	5	mg/kg	0.5	ND
Aluminium (Al)	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.02	ND

Notes :

(1) Test condition & simulant were specified by client.

**Extractable heavy metals(sample 003)**

Test Requested : In accordance with Council of Europe Resolution CM/Res(2013)9, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, to determine extractable heavy metals.

Test Method : With reference to EN 13130-1:2004, analysis was performed by ICP-MS.

**Sample 003:**

Simulant Used : Artificial tap water

Test Condition : 70 °C 2.0 hr(s)

Test Item(s)	Limit	Unit	MDL	1st + 2nd Migration
Aluminium (Al)	35	mg/kg	0.2	ND
Antimony (Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	ND
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin(Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND
Thallium(Tl)	0.0007	mg/kg	0.0001	ND





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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Aluminium (Al)	5	mg/kg	0.2	ND
Antimony (Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin(Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

- (1) Test condition & simulant were specified by client.
- (2) Requirement for repeat use article: According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles
- (3) The ratio of surface area to volume ratio was 8.9 dm<sup>2</sup> per 1 kg of foodstuff in contact with.
- (4) Acidic foodstuff is not considered for compliance



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