

## Test Report

No. SHAHG1202111201

Date: 15 May 2012

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XINDAO HONGKONG CO.,LTD  
15TH FLOOR,LZY TOWER,NO.4711 JIAO TONG ROAD

The following sample(s) was/were submitted and identified on behalf of the clients as : P436.105 BOPP COOL BOTTLE

SGS Job No. : SHHG1202004378SD - SH  
Date of Sample Received : 27 Feb 2012  
Testing Period : 27 Feb 2012 - 15 May 2012  
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).  
Conclusion : When tested as specified, the tested parameters comply with the requirements stated in Commission Regulation (EU) No 10/2011 of 14 January 2011 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on plastic materials and articles intended to come into contact with aqueous foodstuff( $\text{pH}>4.5$ ),acidic foodstuff( $\text{pH}\leq 4.5$ ).

Signed for and on behalf of  
SGS-CSTC Ltd.



Liu Haipeng, Helen  
Approved Signatory

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Test Results :

### Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-021112.001	Blue plastic stick
2	SHA12-021112.002	Grey plastic lid
3	SHA12-021112.003	Transparent plastic bottle

### Overall migration

Test Requested : To determine the Overall Migration for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on plastic materials and articles intended to come into contact with food.

Test Method : With reference to EN1186-1:2002 for selection of conditions and test method;  
For samples 001~002:EN1186-3:2002 aqueous food simulants by total immersion method;  
For sample 003:EN1186-9:2002 aqueous food simulants by article filling method.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>
Deionized Water	24.0hr	5°C	10 mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
3% Acetic Acid (W/V) Aqueous Solution	24.0hr	5°C	10 mg/dm <sup>2</sup>	<3.0mg/dm <sup>2</sup>
<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 002 Overall Migration</u>
Deionized Water	24.0hr	5°C	60mg/kg	<20mg/kg
3% Acetic Acid (W/V) Aqueous Solution	24.0hr	5°C	60mg/kg	<20mg/kg
<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 003 Overall Migration</u>
Deionized Water	24.0hr	5°C	60mg/kg	<20mg/kg
3% Acetic Acid (W/V) Aqueous Solution	24.0hr	5°C	60mg/kg	<20mg/kg

Notes :

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- (1) mg/dm<sup>2</sup>=milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C=degree Celsius
- (4) <= less than
- (5) Analytical tolerance of aqueous simulants is 1 mg/dm<sup>2</sup> or 6mg/kg
- (6) Test condition & simulant were specified by client.

### Specific Migration of Heavy Metal

Test Requested : To determine the Specific Migration of Heavy Metal for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 on plastic materials and articles intended to come into contact with food.

Test Method : Sample preparation 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 : 5 °C 24.0 hr

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test Result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.05	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
Zinc	25	mg/kg	0.5	ND

#### Sample 002

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

Test Condition : 5 °C 24.0 hr

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test Result</u>
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.05	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND

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Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	25	mg/kg	0.5	ND

## Sample 003

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

Test Condition : 5 °C 24.0 hr

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test Result
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.05	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
Zinc	25	mg/kg	0.5	ND

### Notes :

- (1) MDL = Method Detection Limit
- (2) ND = Not Detected (< MDL)
- (3) Test condition & simulant were specified by client.

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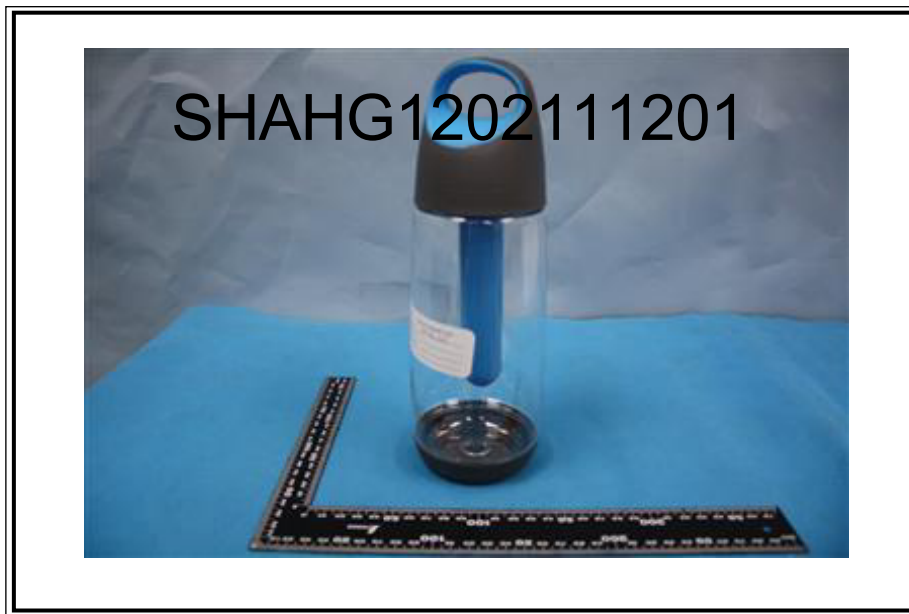


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