



Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 1 of 8

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

SGS Job No. : NBHG201103384 - NB
Country of Origin : CHINA
Country of Destination : TURKEY
Date of Sample Received : 27 Oct 2011
Testing Period : 27 Oct 2011 - 11 Nov 2011
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 : For samples 001~004, 006, when tested as specified, the tested parameters comply with the overall migration requirements stated in Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with acidic foodstuff (PH≤4.5).

For sample 005, when tested as specified, the tested parameters comply with the overall migration stated in the Council of Europe Resolution AP (2004) 5 on silicone rubber materials and articles intended to come into contact with acidic foodstuff (PH≤4.5).

For samples 001~004, 006, when tested as specified, the tested parameters comply with the Specific Migration of Heavy Metal requirements stated in Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

Leachable Lead and Cadmium content of the submitted sample 007 does not exceed the limit stated in European Council Directive 84/500/EEC and its amendment Commission Directive 2005/31/EC.

For sample 008, when tested as specified, the tested parameters comply with the requirement stating in Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

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Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 2 of 8

Signed for and on behalf of
SGS-CSTC Ltd.

LiuXiaoRong, Sharon
Approved Signatory

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Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 3 of 8

Test Results :

Test Part Description :

Specimen No	SGS Sample ID	Description
1	NGB11-010531.001	White plastic tube part (2#)
2	NGB11-010531.002	Transparent plastic lid (14#)
3	NGB11-010531.003	Milk plastic tube (1#)
4	NGB11-010531.004	White plastic ring (9#)
5	NGB11-010531.005	Milky silicone rubber ring (10#)
6	NGB11-010531.006	White plastic tube part (11#)
7	NGB11-010531.007	Transparent glass ball
8	NGB11-010531.008	Black stainless steel spring

Overall migration

Test Requested : For samples 001~004, 006,
To determine the Overall Migration for compliance with Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food.

For sample 005,
In accordance with Council of Europe Resolution AP (2004) 5.
For material: Silicone rubber – Overall migration test.

Test Method : With reference to 82/711/EEC with its amendments and 2002/72/EC with its amendments for selection of condition and EN1186-1:2002 for selection of test method;
EN1186-3:2002 aqueous food simulants by total immersion method.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall Migration
3% Acetic Acid (W/V) Aqueous Solution	240.0hr	20°C	10 mg/dm ²	<3.0mg/dm ²

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 002 Overall Migration
3% Acetic Acid (W/V) Aqueous Solution	240.0hr	20°C	10 mg/dm ²	<3.0mg/dm ²

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 003 Overall Migration

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Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 4 of 8

3% Acetic Acid (W/V)
Aqueous Solution

240.0hr

20°C

10 mg/dm²

<3.0mg/dm²

Simulant Used

Time

Temperature

Max. Permissible
Limit

Result of 004
Overall Migration

3% Acetic Acid (W/V)
Aqueous Solution

240.0hr

20°C

10 mg/dm²

<3.0mg/dm²

Simulant Used

Time

Temperature

Max. Permissible
Limit

Result of 005
Overall Migration

3% Acetic Acid (W/V)
Aqueous Solution

240.0hr

20°C

10 mg/dm²

<3.0mg/dm²

Simulant Used

Time

Temperature

Max. Permissible
Limit

Result of 006
Overall Migration

3% Acetic Acid (W/V)
Aqueous Solution

240.0hr

20°C

10 mg/dm²

<3.0mg/dm²

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm²
- (2) Test condition & simulant were specified by client

Leachable Lead and Cadmium

Test Requested : To determine the leachable Lead and Cadmium contents from the submitted samples with reference to European Council Directive 84/500/EEC (COUNCIL DIRECTIVE of 15 October 1984 on the approximation of the laws of the Member States relating to ceramic articles intended to come into contact with foodstuffs) and its amendment Commission Directive 2005/31/EC

Test Method : With reference to EEC Directive 84/500/EEC and 2005/31/EC. Analysis was performed by ICP-OES.

Sample 007 Category 1

	<u>Vol. of 4% Acetic acid used (ml)</u>	<u>Surface Area (dm²)</u>
1	140	1
2	140	1
3	140	1
4	140	1

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Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 5 of 8

	<u>Leachable Lead</u> (mg/dm ²)	<u>Leachable Cadmium</u> (mg/dm ²)
1	<0.1	<0.01
2	<0.1	<0.01
3	<0.1	<0.01
4	<0.1	<0.01
Limit	0.8	0.07

Notes :

- (1) Category 1: Articles that cannot be filled and articles that can be filled, the internal depth of which does not exceed 25 mm.
- (2) Category 2: Articles, not in categories 1 or 3, which can be filled
- (3) Category 3: Cooking ware; packaging and storage vessels having a capacity of more than three liters
- (4) < = Less than

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 on plastic materials and articles intended to come into contact with food.

Test Method : With reference to 82/711/EEC with its amendments and 2002/72/EC with its amendments for selection of condition and EN13130-1:2004 for selection of test method; analysis was performed by ICP-OES.

Sample 001

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

Test Condition : 20 °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

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Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 6 of 8

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

Test Condition : 20 °C 24.0 hr

<u>Test Item(s)</u>	<u>Max. Permissible 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 003

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

Test Condition : 20 °C 24.0 hr

<u>Test Item(s)</u>	<u>Max. Permissible 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 004

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

Test Condition : 20 °C 24.0 hr

<u>Test Item(s)</u>	<u>Max. Permissible 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

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Test Report

No. NGBHG1101053101

Date: 11 Nov 2011

Page 7 of 8

Zinc 25 mg/kg 0.5 ND

Sample 006

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

Test Condition : 20 °C 24.0 hr

Table with 5 columns: Test Item(s), Max. Permissible Limit, Unit, MDL, Test Result. Rows include Barium, Cobalt, Copper, Iron, Lithium, Manganese, and Zinc.

Notes :

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

Extractable Heavy Metals

Test Requested : In accordance with Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

For material: Metal - Extractable Heavy Metals

Test Method : Sample preparation in 3% acetic acid at 20°C 24 hours, followed by analysis using ICP-OES.

Table with 5 columns: Test Item(s), Limit, Unit, MDL, 008. Rows include Extractable Lead, Cadmium, Chromium, Nickel, Copper, Antimony, and Cobalt.

Notes :

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