

Test Report

No. NGBHG1401710301

Date: 20 Jun 2014

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NINGBO AYC BIOLOGICAL TECHNOLOGY CO.,LTD

ROOM 7-8,BUILDING #2,YINCEN BUSINESS CENTER,JIANGDONG DISTRICT, NINGBO ,CHINA

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

SGS Job No. : NBHG1406000249SD - NB
 Item No. : AYC-0109
 Style No. : AYC-0109 PINK
 Date of Sample Received : 12 Jun 2014
 Testing Period : 12 Jun 2014 - 20 Jun 2014
 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
Sensorial examination odour and taste test (sample 001)	PASS
BS EN 14372:2004 Child use and care articles - Cutlery and feeding utensils - Safety requirements and Tests, Clause 5.4.2.7.- Bisphenol-A (sample 001)	See Results
Specific migration of heavy metal (sample 001)	PASS
BS EN 14372:2004 Child use and care articles – Cutlery and feeding utensils – Safety requirements and Tests, Clause 5.4.2.2– Migration of certain elements (sample 001)	PASS
BS EN 14372:2004, Child use and care articles – Cutlery and feeding utensils – Safety requirements and Tests, Clause 5.4.2.3.-Phthalates (sample 001)	See Results

Signed for and on behalf of
 SGS-CSTC Ltd.

Iris Xiao

Iris Xiao
 Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB14-017103.001	Pink plastic bowl	PLA

Overall migration (sample 001)

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, to determine overall migration.

Test Method : With reference to EN1186-1:2002 for selection of conditions and test method;
EN1186-9:2002 aqueous food simulants by article filling method;
EN 1186-14:2002 substitute test.

Simulant Used	Time	Temperature	Max. Permissible Limit	Result of 001 Overall Migration
Deionized Water	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
50% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²
95% Ethanol (V/V) Aqueous Solution (Rectified Oliver Oil Substitute)	2.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²
Isooctane (Rectified Oliver Oil Substitute)	0.5hr(s)	40°C	10mg/dm ²	<3.0mg/dm ²

Notes :

- (1) Analytical tolerance of aqueous simulants is 1 mg/dm².
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm².
- (3) Test condition & simulant were specified by client.

Sensorial examination odour and taste test (sample 001)

Test Requested : In accordance with Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, to determine sensorial examination odour and taste.

Test Method : With reference to DIN 10955:2004

Test media: Distilled water

No. of panelist: 6



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<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Simulant	-	Distilled water
Test time(hr)	-	2
Temperature(°C)	-	70
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0

Notes :

Scale evaluation:

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

BS EN 14372:2004 Child use and care articles - Cutlery and feeding utensils - Safety requirements and Tests, Clause 5.4.2.7.- Bisphenol-A (sample 001)

Test Method : With reference to BS EN 14372-2:2004, Clause 6.3.6, analysis was performed by HPLC-MS.

Sample 001

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Bisphenol-A release	0.03	mg/L	0.02	ND

Specific migration of heavy metal (sample 001)

Test Requested : In accordance with Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments, 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>
Barium	1	mg/kg	0.25	ND



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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
Zinc	25	mg/kg	0.5	ND

Notes :

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

BS EN 14372:2004 Child use and care articles – Cutlery and feeding utensils – Safety requirements and Tests, Clause 5.4.2.2– Migration of certain elements (sample 001)

Test Method : With reference to BS EN 14372:2004, Clause 6.3.1, analysis was performed by ICP-OES

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Soluble Lead (Pb)	25	mg/kg	5	ND
Soluble Antimony (Sb)	15	mg/kg	5	ND
Soluble Arsenic (As)	10	mg/kg	5	ND
Soluble Barium (Ba)	100	mg/kg	10	ND
Soluble Cadmium (Cd)	20	mg/kg	5	ND
Soluble Chromium (Cr)	10	mg/kg	5	ND
Soluble Mercury (Hg)	10	mg/kg	5	ND
Soluble Selenium (Se)	100	mg/kg	10	ND
Conclusion				PASS

Notes :

(1) Results shown are of the adjusted analytical results.

BS EN 14372:2004, Child use and care articles – Cutlery and feeding utensils – Safety requirements and Tests, Clause 5.4.2.3.-Phthalates (sample 001)

Test Method : With reference to EN 14372:2004, Clause 6.3.2., analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	-	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	-	%	0.003	ND



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Diisononyl Phthalate (DINP)	28553-12-0/68515-48-0	-	%	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	-	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/68515-49-1	-	%	0.010	ND
Total (DBP+BBP+DEHP+DINP+DNO)		0.1	%	-	ND

Remark:

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) hr = hour
- (5) < = less than
- (6) ND = Not detected(< MDL)
- (7) MDL = Method Detection Limit
- (8) % =percentage by weight
- (9) mg/L = milligram per litre



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