

Test Report

No. NGBEC1704213202

Date: 13 Sep 2017

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NINGBO HUIYOO BABY PRODUCTS CO.,LTD

523# CIZHANG ROAD,ZHANGQI INDUSTRIAL AREA,CIXI CITY,ZHEJIANG PROVINCE,P.R.CHINA.

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

SGS Job No. : NP17-003161 - NB

Model No. : RBX8016

Client Ref. Information : RBX8010, RBX8011, RBX8012,RBX8013,RBX8015,RBX8015-2,RBX8015-3,
RBX8017,RBX8018,RBX8019,RBX8020,RBX8021,RBX8022
RBX8023,RBX8024,RBX8025,RBX8026,RBX8027,RBX8028,RBX8029
RBX8030, RBXP-8013

Date of Sample Received : 17 Aug 2017

Testing Period : 17 Aug 2017 - 11 Sep 2017

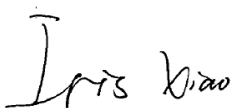
Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : For sample 001 and 004, the tested parameters comply with the requirements stated in German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) with amendments, Section 30 & 31, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.

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



Iris Xiao
Approved Signatory



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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	NGB17-042132.001	Transparent plastic cup	PP
SN2	NGB17-042132.004	Transparent silicone rubber	Silicone rubber
SN3	NGB17-042132.005	Breast Pump	whole product

Overall migration

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, 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 conditions and EN1186-1:2002 for selection of test method; 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>
50% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	10mg/dm ²	<3.0mg/dm ²

Notes :

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

Extractable component

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine extractable component.

Test Method : With reference to 61st Mitteilung über die Untersuchung von Kunststoffen , Bundesgesundheitsbl 46 (2003) 362.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 004 Extractives</u>
Distilled water	0.5hr(s)	40°C	0.5% (w/w)	<0.1% (w/w)

Notes :



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(1) Test condition & simulant were specified by client

Sensorial examination odour and taste test

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, to determine sensorial examination odour and taste.

Test Method : With reference to DIN 10955:2004
 Test media: Deionized water
 No.of panelist: 6

Test Item(s)	Limit	005
Test time(hr)	-	1
Temperature(°C)	-	40
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

Specific migration of heavy metal

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, 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 : 40 °C 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test Result
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Migration times	-	-	-	3rd
Area/volume	-	dm ² /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
Zinc	25	mg/kg	0.5	ND

Notes :

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

Lead(Pb) and cadmium(Cd)

Test Requested : For sample 001,

In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine Lead(Pb) and Cadmium (Cd).

For sample 004,

In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine lead (Pb) and cadmium (Cd).

Test Method : Total lead and cadmium: Acidic digestion, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>004</u>
Total Lead	★	mg/kg	2	ND	ND
Total Cadmium	★	mg/kg	2	ND	ND

Notes :

(1) ★= Absent.

Volatile organic matter

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine volatile organic matter (VOM).



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Test Method : With reference to 61. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 46(2003)362

Test condition : 200°C, 4.0 hours

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Volatile organic matter (VOM)	0.5	% (w/w)	0.1	0.3

Total content of bisphenol A

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Implementing Regulation (EU) 321/2011 amending Regulation (EU) 10/2011 of 14 January 2011 and BfR recommendations, to determine bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-FLD/HPLC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>004</u>
Bisphenol-A	0.1	mg/kg	0.1	ND	ND

Polynuclear aromatic hydrocarbons (PAHs)

Test Requested : For sample 001,
In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine polynuclear aromatic hydrocarbons(PAHs).

For sample 004,
In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments and BfR recommendation, to determine polynuclear aromatic hydrocarbons(PAHs).

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	1	mg/kg	-	ND
Naphthalene(NAP)	1	mg/kg	0.1	ND
Acenaphthylene(ANY)	-	mg/kg	0.1	ND
Acenaphthene(ANA)	-	mg/kg	0.1	ND
Fluorene(FLU)	-	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	0.2	mg/kg	0.1	ND
Chrysene(CHR)	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.2	mg/kg	0.1	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Sum of 18 PAHs	1	mg/kg	-	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	1	mg/kg	-	ND
Naphthalene(NAP)	1	mg/kg	0.1	ND
Acenaphthylene(ANY)	-	mg/kg	0.1	ND
Acenaphthene(ANA)	-	mg/kg	0.1	ND
Fluorene(FLU)	-	mg/kg	0.1	ND
Phenanthrene(PHE)	-	mg/kg	0.1	ND
Anthracene(ANT)	-	mg/kg	0.1	ND
Fluoranthene(FLT)	-	mg/kg	0.1	ND
Pyrene(PYR)	-	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	0.2	mg/kg	0.1	ND
Chrysene(CHR)	0.2	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	0.2	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	0.2	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	0.2	mg/kg	0.1	ND



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Test Item(s)	Limit	Unit	MDL	004
Indeno(1,2,3-c,d)pyrene(IPY)	0.2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	0.2	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	0.2	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	0.2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	0.2	mg/kg	0.1	ND

Remark:

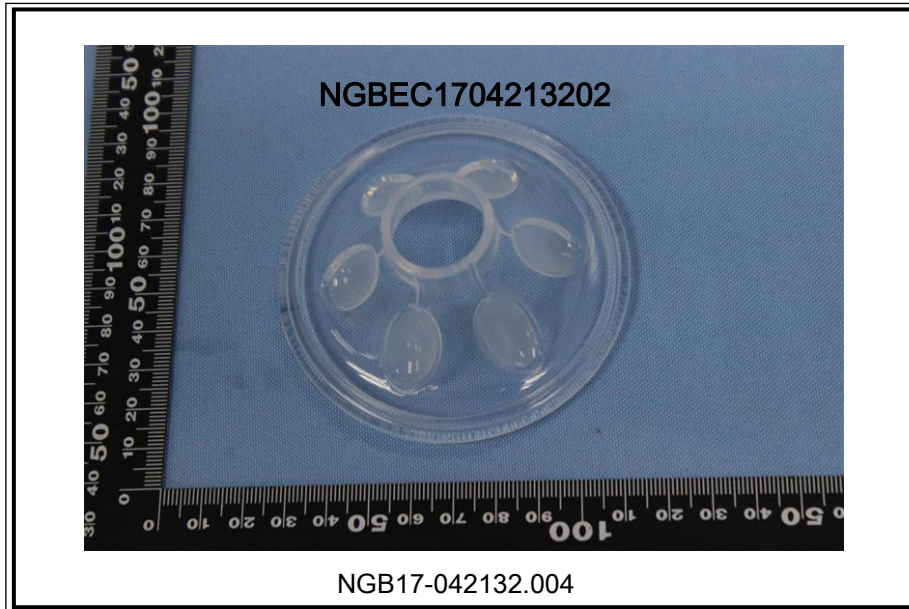
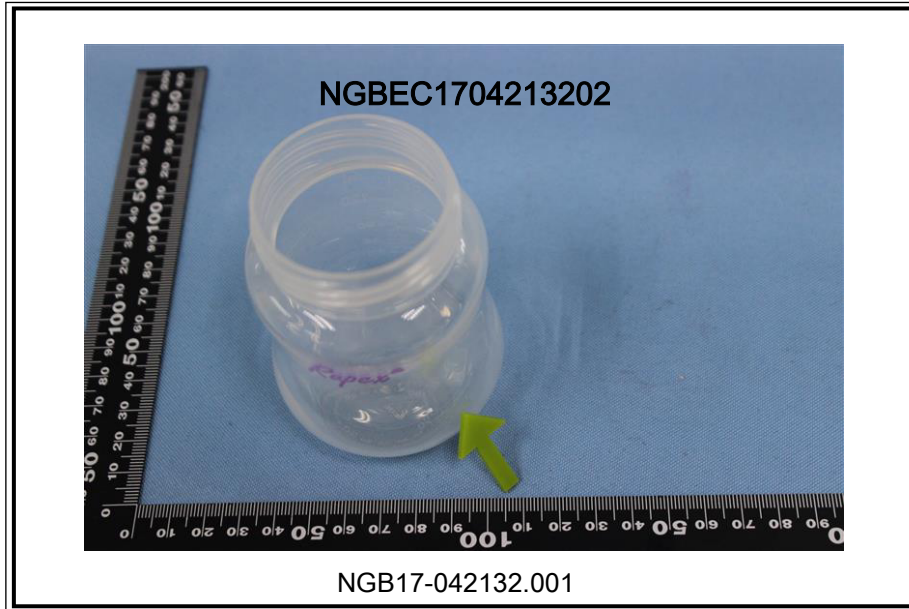
- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C = degree Celsius
- (4) hr = hour
- (5) < = less than
- (6) ND = Not detected(< MDL)
- (7) MDL = Method Detection Limit
- (8) % (w/w) =percentage of weight by weight
- (9) Results of samples 001 are taken from report NGBEC1704213201.001, Date: 2017/09/13



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