

Kambukka bvba
Torenplein 7.16.1, 3500 Hasselt, BELGIUM

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Date: 2014-04-25
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TEST REPORT

Test Report No. : **4316548.52**
Project No. : **4316548.00**

Applicant : Kambukka bvba
Torenplein 7.16.1, 3500 Hasselt, BELGIUM

Product Name : CONTIGO Shake & Go

Test Requested : German Food, Articles of Daily Use and Feed Code of September 1,
2005(LFGB), Section 30 & 31 and BfR recommendation and applicant's
requirement.

Test Method : Please refer to next pages

Sample Received : 2014-04-14

Testing Period : 2014-04-14 to 2014-04-24

Reference No : CTT140411699EN

Test Results
- following pages -

Resume:

No.	Parameter	Product Name: CONTIGO Shake & Go
1	Sensorial examination - odour and taste test	PASS
2	Overall migration	PASS
3	Specific migration of heavy metals	PASS
4	Specific migration of Primary Aromatic Amine (PAA)	PASS
5	Peroxide value	PASS
6	Specific migration of Bisphenol A (BPA)	PASS
7	Extractable components	PASS
8	Volatile Organic Matter (VOM)	PASS
9	Specific migration of Formaldehyde	PASS
10	Total Platinum	PASS
11	Extractable heavy metals	PASS
12	Acrylonitrile monomer	PASS

Guangzhou, April 25, 2014

Signed for and on behalf of

DEKRA Testing and Certification (Shanghai) Ltd., Guangzhou branch

Toys, Textile, Chemical & Sustainability



Raymond Yu
Manager

Attention: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of the testing laboratory.

Sample Descriptions:

No.	Description(s)	Materials
(1)	Complete product	All (except the straw)
(2)	Straw	Bio co-polyester
(3)	Main seal	Silicone
(4)	Trap door -spring	Stainless steel
(5)	Trap door	POM
(6)	Ice guard	ABS (A<30%)
(7)	Trap door -seal	Silicone
(8)	Lid	ABS (A<30%)

TEST RESULTS

1) Sensorial examination - odour and taste test

With reference to DIN 10955:2004.

Test Item	Result		Recommended Limit
	(1)	(2)	
Sensorial examination odour (point scale)	0	0	2.5
Sensorial examination taste (point scale)	0	0	2.5

Remark:

1. Test condition is 70°C at 2 hours for odour test, 70°C 2 hours for taste test.
2. Test media for taste test: Distilled water
3. Number of panelist: Six
4. Scale evaluation:
 - 0 = No perceptible odour/taste
 - 1 = Odour/taste just perceptible (still difficult to define)
 - 2 = Moderate odour/taste
 - 3 = Moderately strong odour/taste
 - 4 = Strong odour/taste

2) Overall migration

With reference to EN1186-1:2002 & EN1186-9:2002.

Test simulant	Test condition	Result (mg/dm ²)		Limit (mg/dm ²)
		(1)	(2)	
50%(v/v) Ethanol	70°C 2 hours	<3	<3	10
3%(w/v) Acetic acid	70°C 2 hours	<3	<3	10

Remark:

1. mg/dm² = milligram per square decimeter
2. < = Less than

3) Specific migration of heavy metals

With reference to (EU) No. 10/2011 for selection of conditions and test method for specific migration. Analysis was performed by inductively coupled plasma optical emission spectrometer & flame atomic absorption spectrophotometer.

Test Item	Test Condition	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		(1)	(2)		
Barium (Ba)	3%(w/v) Acetic acid 70°C 2 hour	N.D.	N.D.	0.1	1
Cobalt (Co)		N.D.	N.D.	0.05	0.05
Copper (Cu)		N.D.	N.D.	0.5	5
Iron (Fe)		N.D.	N.D.	1.0	48
Lithium (Li)		N.D.	N.D.	0.1	0.6
Manganese (Mn)		N.D.	N.D.	0.1	0.6
Zinc (Zn)		N.D.	N.D.	1.0	25

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

4) Specific migration of Primary Aromatic Amine (PAA)

With reference to DIN 55610-1986. Analysis was performed by UV-visible spectrophotometer.

Test Item	Test Condition	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		(1)	(2)		
PAA	3%(w/v) Acetic acid 70°C 2 hours	N.D.	N.D.	0.01	0.01

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

5) Peroxide value

European Pharmacopoeia, 2005 Appendix X F. Peroxide Value method A

Test Item	Result	Limit
	(1)	
Peroxide value	Absent	Absent

6) Specific migration of Bisphenol A (BPA)

With reference to DD CEN/TS 13130-13:2005. Analysis was performed by HPLC.

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)		
Specific migration of BPA	N.D.	N.D.	0.1	0.6

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit
4. Test condition is 70°C for 2 hours in 3% Acetic acid.

7) Extractable components

With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46(2003) 362.

Test Item	Unit	Result		Limit
		(3)	(7)	
Extractives – Distilled water	%	<0.1	<0.1	0.5
Extractives - 10% Ethanol(v/v)	%	<0.1	<0.1	0.5
Extractives - 3% acetic acid(w/v)	%	<0.1	<0.1	0.5

Remark: Test condition is refluxing for 5 hours.

8) Volatile organic matter

LFGB BfR Part II Section X V, May 2003 and LFGB section 35 B80.30 1(EG)

Test Item	Result (%)		Limit (%)
	(3)	(7)	
Volatile organic matter	0.2	0.2	0.5

Remark: Test condition is 70°C for 2 hours.

LFGB BfR Part II Section V I ,May 2003 and LFGB section 35 B80.30 1(EG)

Test Item	Result (%)		Limit(mg/dm ²)
	(6)	(8)	
Volatile organic matter	6.6	11.3	15

Remark: Test condition is 90°C for 24 hours.

9) Specific migration of formaldehyde

With reference to EN 1186-3. Analysis was performed by UV-visible spectrophotometer.

Test Item	Test Condition	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		(3)	(7)		
Formaldehyde	3%(w/v) Acetic acid 70°C 2 hours	1.4	1.4	1	3

Test Item	Test Condition	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		(5)			
Formaldehyde	3%(w/v) Acetic acid 70°C 2 hours	7.4		1	15

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

10) Total Platinum (Pt)

With reference to EPA 3052:1996. Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	(3)	(7)		
Platinum (Pt)	N.D.	N.D.	10	50

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

11) Extractable heavy metals

Sample preparation in 3%(w/v) acetic acid at 70°C for 2 hours. Analysis was performed by inductively coupled plasma optical emission spectrometer& flame atomic absorption spectrophotometer.

Test Item	Result (mg/dm ²)	MDL (mg/dm ²)	Recommended Limit(mg/dm ²)
	(4)		
Extractable lead (Pb)	N.D.	0.005	0.01
Extractable cadmium(Cd)	N.D.	0.005	0.005
Extractable chromium (Cr)	N.D.	0.01	0.4
Extractable nickel (Ni)	N.D.	0.01	0.1
Extractable copper (Cu)	N.D.	0.01	0.5
Extractable cobalt (Co)	N.D.	0.01	Not Detectable
Extractablestibium (Sb)	N.D.	0.005	Not Detectable

Remark:

1. mg/dm² = milligram per square decimeter
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

12) Specific migration of Acrylonitrile

With reference to(EU) No. 10/2011& EN13130-3:2004. Analysis was performed by gas chromatographic-hydrogen flameionization detector.

Food Simulant	Food Simulant	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		(6)	(8)		
10% ethanol	70°C, 2 hours	N.D.	N.D.	0.01	Not Detectable

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

Sample photo



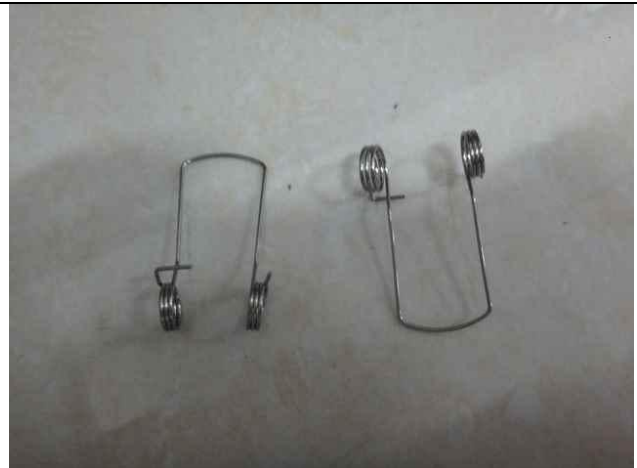
Picture (1), Complete Product



Picture (2), Straw



Picture (3), Main seal



Picture (4), Trap door spring



Picture (5), Trap door



Picture (6), Ice guard



---End of Report---