

Kambukka bvba
Torenplein 7.16.1, 3500 Hasselt, BELGIUM

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

Building A3, No.3 Qiyun Road, Science City,
Guangzhou Hi-Tech Industrial Development Zone,
Guangzhou, P.R. China
Tel.: +86 20 6661 2000
Fax: +86 20 6661 2001

Contact
Raymond Yu
Tel.: +86 20 6684 3299
E-Mail: raymond.yu@dekra-certification.cn
Date: 2015-05-05
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TEST REPORT

Test Report No. : 4322184.56
Project No. : 4322184.00

Applicant : Kambukka bvba
Torenplein 7.16.1, 3500 Hasselt, BELGIUM

Product Name : Ashland
Model No. : 71430
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 : 2015-04-17
Testing Period : 2015-04-17 to 2015-04-25
Reference No : CTT150414356EN

Test Results
- following pages -

Resume:


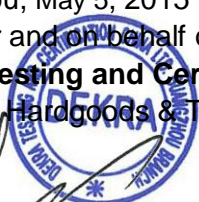
No.	Parameter	Product Name: Ashland Model No.: 71430
1	Sensorial examination - odour and taste test	PASS
2	Overall migration	PASS
3	Specific migration of heavy metals	PASS
4	Specific migration of Primary Aromatic Amine (PAA)	PASS
5	Peroxide value	PASS
6	Specific migration of Bisphenol A (BPA)	PASS
7	Chromium, zirconium, vanadium, Hafnium contents	PASS
8	Specific migration of Formaldehyde	PASS
9	Extractable components	PASS
10	Volatile Organic Matter (VOM)	PASS
11	Total Platinum	PASS

Guangzhou, May 5, 2015

Signed for and on behalf of

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

Chemical, Hardgoods & Toys


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 (claimed by applicant)
(1)	Complete product, Body	All, PCTG-Tritan Copolyester (red transparent)
(2)	Thread ring	PP(red)
(3)	Extruded straw	LDPE (purple)
(4)	Integrated straw overmold	PP (purple)
(5)	Spout tip	Silicone (transparent)
(6)	Spout base	Silicone (transparent)
(7)	Seal-vent seal/seal-main body seal	Silicone (black)

TEST RESULTS

1) Sensorial examination - odour and taste test

With reference to DIN 10955:2004.

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

Remark:

1. Test condition is 22°C at 24 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 Item	Result (mg/dm ²)	Limit (mg/dm ²)
	(1)	
50%(v/v) Ethanol 70°C 2 hours	<3	10
3%(w/v) Acetic acid 70°C 2 hours	<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)		
Barium (Ba)	3%(w/v) Acetic acid 70°C 2 hours	N.D.	0.1	1
Cobalt (Co)		N.D.	0.05	0.05
Copper (Cu)		N.D.	0.5	5
Iron (Fe)		N.D.	1.0	48
Lithium (Li)		N.D.	0.1	0.6
Manganese (Mn)		N.D.	0.1	0.6
Zinc (Zn)		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)		
PAA	3%(w/v) Acetic acid 70°C 2 hours	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)		
Specific migration of BPA	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(w/v)

7) Chromium, zirconium, vanadium, Hafnium contents

Acid digestion. Analysis was performed by inductively coupled plasma optical emission spectrometer.

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(2)	(3)	(4)		
Total Chromium (Cr)	N.D.	N.D.	N.D.	1	10
Total Zirconium (Zr)	N.D.	N.D.	N.D.	5	100
Total Vanadium (V)	N.D.	N.D.	N.D.	2	20
Total Hafnium (Hf)	N.D.	N.D.	N.D.	10	100

Remark:

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

8) Specific migration of formaldehyde

With reference to (EU) No. 10/2011 & EN 13130-23:2005. Analysis was performed by UV-visible spectrophotometer.

Test Item	Test Condition	Result (µg/mL)			MDL (µg/mL)	Limit (µg/mL)
		(5)	(6)	(7)		
Formaldehyde	3%(w/v) Acetic acid 70°C 2 hours	N.D.	N.D.	N.D.	1	3

Remark:

1. µg/mL = microgram per milliliter
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit

9) Extractable components

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

Test Item	Result (%)			Limit (%)
	(5)	(6)	(7)	
Extractives – Distilled water	<0.1	<0.1	<0.1	0.5
Extractives - 10% Ethanol(v/v)	<0.1	<0.1	<0.1	0.5
Extractives - 3% acetic acid(w/v)	<0.1	<0.1	<0.1	0.5

Remark: Test condition is refluxing for 5 hours.

10) Volatile organic matter

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

Test Item	Result (%)			Limit (%)
	(5)	(6)	(7)	
Volatile organic matter	<0.1	<0.1	<0.1	0.5

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

11) Total Platinum (Pt)

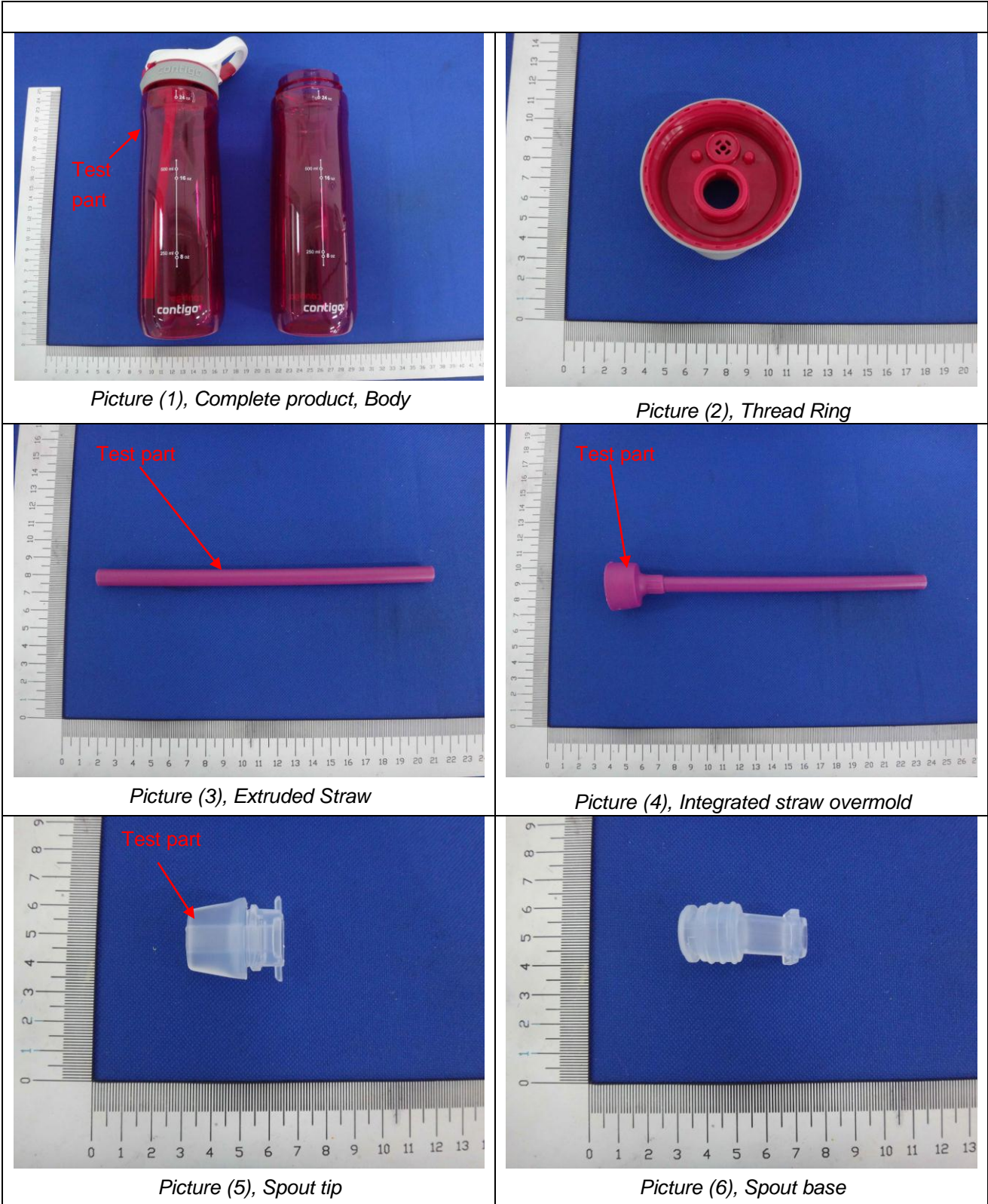
With reference to EPA 3052:1996. Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

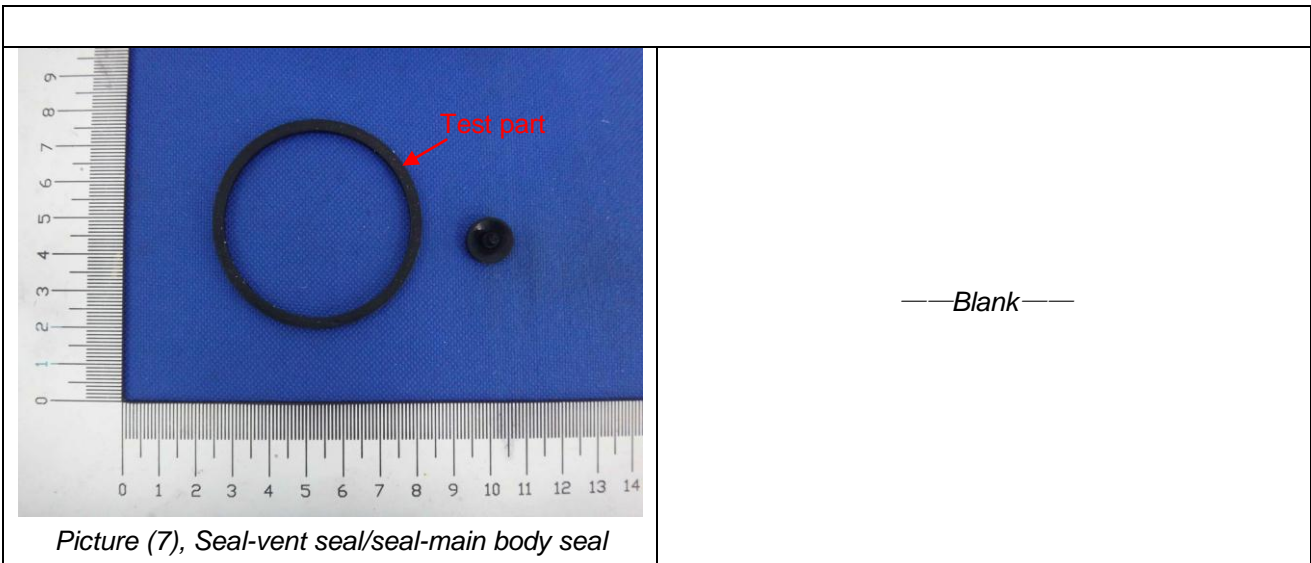
Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)		
Platinum (Pt)	N.D.	N.D.	N.D.	10	50

Remark:

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

Sample Photo





---End of Report---