

DOSIMI CO., LIMITED
RM.1902, EASEY COMM. BLDG., 253-261
HENNESSY ROAD, WANCHAI, HONGKONG

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

Block 5, No.3, Qiyun Road, Huangpu District,
Guangzhou, Guangdong, China
Tel.: +86 20 6661 2000
Fax: +86 20 6661 2001

Contact
Devin Ai
Tel.: +86 20 6684 3294
E-Mail: devin.ai@dekra.com
Page 1 of 17

TEST REPORT

Test Report No. : **4383802.50** Version 1

Project No. : **4383802.00**

Test Report Date : **2021-12-30**

Job No. : 21-02709

Applicant : DOSIMI CO., LIMITED
RM.1902, EASEY COMM. BLDG., 253-261 HENNESSY ROAD,
WANCHAI, HONGKONG

Product Name : Centrifugal Juicer

Model No. : SJ450SS

Test Requested : Regulation (EC) No 1935/2004, Regulation (EU) 10/2011, EU 2020/1245
and its amendments and German Food, Articles of Daily Use and Feed
Code of September 1, 2005 (LFGB), Section 30 & 31 and BfR
recommendation.


- Sensorial examination - odour and taste test
- Overall migration
- Specific migration of heavy metals
- Specific migration of Primary Aromatic Amine
- Specific migration of acrylonitrile
- Specific migration of butadiene
- Butadiene content
- Peroxide value
- Volatile Organic Matter (VOM)
- PAHs content
- Total lead and cadmium
- Chromium, vanadium, zirconium and hafnium content
- Extractable heavy metals (23 elements)

Test Method : Please refer to next pages

Sample Received : 2021-12-14
Testing Period : 2021-12-14 to 2021-12-30

Test Results
- following pages -

Resume:

No.	Parameter	Sample photos
		
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	PASS
5.	Specific migration of acrylonitrile	PASS
6.	Specific migration of butadiene	PASS
7.	Butadiene content	PASS
8.	Peroxide value	PASS
9.	Volatile Organic Matter (VOM)	PASS
10.	PAHs content	PASS
11.	Total lead and cadmium	PASS
12.	Chromium, vanadium, zirconium and hafnium content	PASS
13.	Extractable heavy metals (23 elements)	PASS

Guangzhou, December 30, 2021

Signed for and on behalf of

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

Chemical & Mechanical



Devin Ai

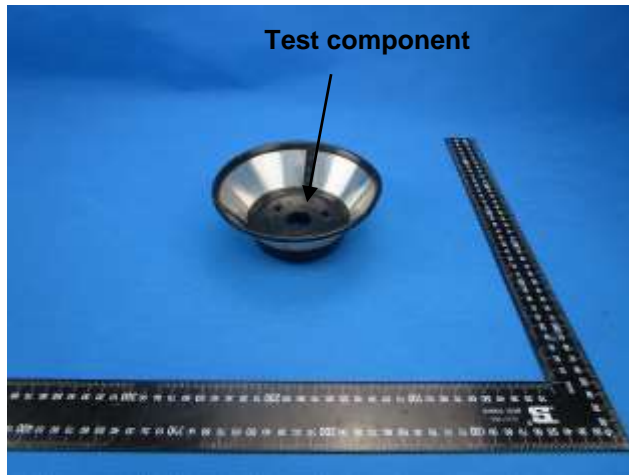
Assistant Manager

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. Only the report with CMA logo has the function of social proof in China market.

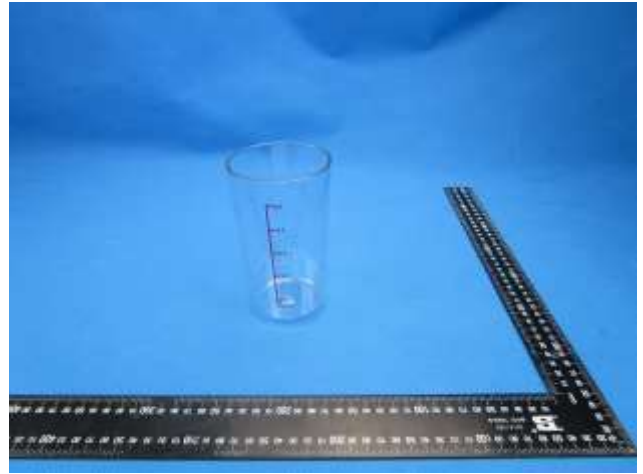
Sample Descriptions:

No.	Description(s)	Material(s) (claimed by applicant)
(1)	Pulp Container	ABS (Black)
(2)	Juice Cup	AS (Transparent)
(3)	Pusher	PP (Black)
(4)	Filter	Stainless steel
(5)	Centrifugal Juicer	Final product

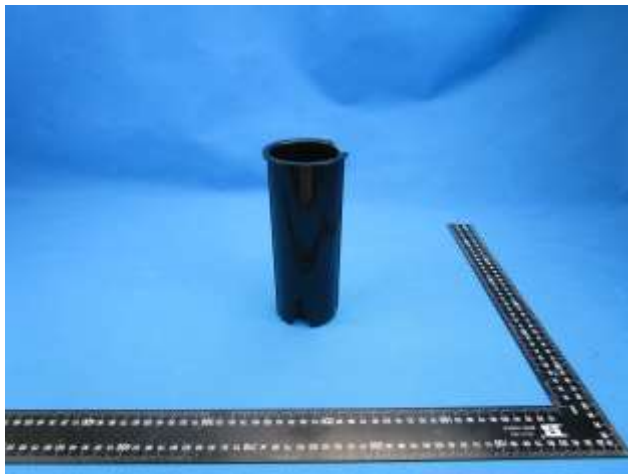
Sample photos



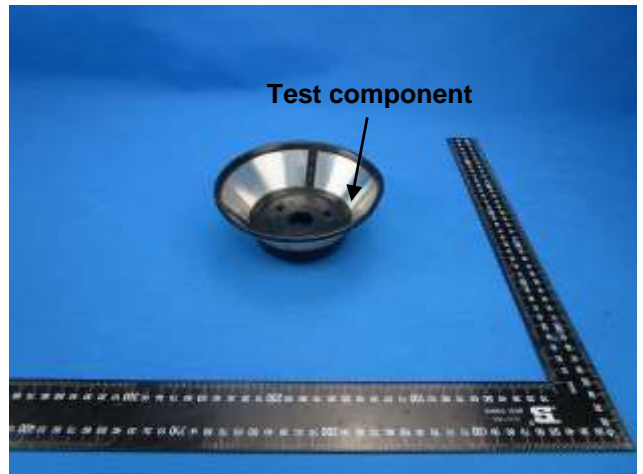
Picture (1)



Picture (2)



Picture (3)



Picture (4)



Picture (5)

(Blank)

TEST RESULTS

1. Regulation (EC) No 1935/2004, Regulation (EU) 10/2011, EU 2020/1245 and its amendments and German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BfR recommendation

Sensorial examination - odour and taste test

With reference to DIN 10955:2004.

Parameter	Result	Limit
	(5)	
Sensorial examination odour (point scale)	0.5	2.5
Sensorial examination taste (point scale)	0.5	2.5

Remark:

Test procedure:

1. Clean the appliance as stated in the DFU under chapter "before first use".
2. Fill the appliance with the food stimulant (drinking water) to the max indication and start the appliance.
3. The extract is collected after the cycle has finished.
4. The extract will be used for sensory test.

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 |

Overall migration

With reference to (EU) No.10/2011 and its amendments, analysis by method EN 1186-3: 2002 and EN 1186-14:2002.

Parameter	Test Condition	Result (mg/dm ²)									Limit (mg/dm ²)
		(1)			(2)			(3)			
		1 st	2 nd	3 rd	1 st	2 nd	3 rd	1 st	2 nd	3 rd	
Overall migration	50%(v/v) Ethanol, 70°C, 2 h	<3	<3	<3	<3	<3	<3	<3	<3	<3	10
	3%(w/v) Acetic acid, 70°C, 2 h	<3	<3	<3	<3	<3	<3	<3	<3	<3	10

Remark:

1. mg/dm² = milligram per square decimeter

Specific migration of heavy metals

With reference to (EU) No. 2020/1245 for selection of conditions and test method for specific migration. Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Parameter	Test Condition	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
		(1)			(2)				
		1 st	2 nd	3 rd	1 st	2 nd	3 rd		
Barium (Ba)	3%(w/v) Acetic acid, 40°C, 0.5h	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	1
Cobalt (Co)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	0.05
Copper (Cu)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	5
Iron (Fe)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	48
Lithium (Li)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.6
Manganese (Mn)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	0.6
Zinc (Zn)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	5
Aluminum (Al)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.1	1
Nickel (Ni)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	0.02
Antimony (Sb)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.04
Arsenic (As)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Cadmium (Cd)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	N.D.
Chromium (Cr)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Lead (Pb)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Mercury (Hg)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.
Lanthanum (La)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.05
Europium (Eu)		N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	
Gadolinium (Gd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01		
Terbium (Tb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01		
Tungsten (W)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	0.05	

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(3)				
		1 st	2 nd	3 rd		
Barium (Ba)	3%(w/v) Acetic acid, 40°C, 0.5h	N.D.	N.D.	N.D.	0.1	1
Cobalt (Co)		N.D.	N.D.	N.D.	0.05	0.05
Copper (Cu)		N.D.	N.D.	N.D.	0.5	5
Iron (Fe)		N.D.	N.D.	N.D.	1.0	48
Lithium (Li)		N.D.	N.D.	N.D.	0.1	0.6
Manganese (Mn)		N.D.	N.D.	N.D.	0.1	0.6
Zinc (Zn)		N.D.	N.D.	N.D.	0.5	5
Aluminum (Al)		N.D.	N.D.	N.D.	0.1	1
Nickel (Ni)		N.D.	N.D.	N.D.	0.02	0.02
Antimony (Sb)		N.D.	N.D.	N.D.	0.01	0.04

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(3)				
		1 st	2 nd	3 rd		
Arsenic (As)		N.D.	N.D.	N.D.	0.01	N.D.
Cadmium (Cd)		N.D.	N.D.	N.D.	0.002	N.D.
Chromium (Cr)		N.D.	N.D.	N.D.	0.01	N.D.
Lead (Pb)		N.D.	N.D.	N.D.	0.01	N.D.
Mercury (Hg)		N.D.	N.D.	N.D.	0.01	N.D.
Lanthanum (La)		N.D.	N.D.	N.D.	0.01	0.05
Europium (Eu)		N.D.	N.D.	N.D.	0.01	
Gadolinium (Gd)		N.D.	N.D.	N.D.	0.01	
Terbium (Tb)		N.D.	N.D.	N.D.	0.01	
Tungsten (W)		N.D.	N.D.	N.D.	0.01	0.05

Remark:

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

Specific migration of Primary Aromatic Amine (PAA)

With reference to (EU) No. 2020/1245, analysis was performed by Liquid chromatography tandem mass spectrometry.

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(1)				
		1 st	2 nd	3 rd		
4-Aminobiphenyl	3%(w/v) Acetic acid, 40°C, 0.5h	N.D.	N.D.	N.D.	0.002	N.D.
Benzidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Naphthylamine		N.D.	N.D.	N.D.	0.002	N.D.
o-Aminoazotoluene		N.D.	N.D.	N.D.	0.002	N.D.
5-Nitro-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-Aniline		N.D.	N.D.	N.D.	0.002	N.D.
4-Methoxy-m-phenylenediamine		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylenedianiline		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dichlorobenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethoxybenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethylbenzidine		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Methylenedi-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Methoxy-5-Methylaniline		N.D.	N.D.	N.D.	0.002	N.D.

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(1)				
		1 st	2 nd	3 rd		
4,4'-Methylene bis(2-chloroaniline)		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Diaminodiphenylether		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Thioaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2,4-Toluenediamine		N.D.	N.D.	N.D.	0.002	N.D.
2,4,5-Trimethylaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Anisidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Aminoazobenzol	N.D.	N.D.	N.D.	0.002	N.D.	
Other PAAs	N.D.	N.D.	N.D.	0.002	0.01	

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(2)				
		1 st	2 nd	3 rd		
4-Aminobiphenyl	3%(w/v) Acetic acid, 40°C, 0.5h	N.D.	N.D.	N.D.	0.002	N.D.
Benzidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Naphthylamine		N.D.	N.D.	N.D.	0.002	N.D.
o-Aminoazotoluene		N.D.	N.D.	N.D.	0.002	N.D.
5-Nitro-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-Aniline		N.D.	N.D.	N.D.	0.002	N.D.
4-Methoxy-m-phenylenediamine		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylenedianiline		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dichlorobenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethoxybenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethylbenzidine		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Methylenedi-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Methoxy-5-Methylaniline		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylene bis(2-chloroaniline)		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Diaminodiphenylether		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Thioaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2,4-Toluenediamine		N.D.	N.D.	N.D.	0.002	N.D.
2,4,5-Trimethylaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Anisidine	N.D.	N.D.	N.D.	0.002	N.D.	
4-Aminoazobenzol	N.D.	N.D.	N.D.	0.002	N.D.	

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(2)				
		1 st	2 nd	3 rd		
Other PAAs		N.D.	N.D.	N.D.	0.002	0.01

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(3)				
		1 st	2 nd	3 rd		
4-Aminobiphenyl	3%(w/v) Acetic acid, 40°C, 0.5 h	N.D.	N.D.	N.D.	0.002	N.D.
Benzidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Naphthylamine		N.D.	N.D.	N.D.	0.002	N.D.
o-Aminoazotoluene		N.D.	N.D.	N.D.	0.002	N.D.
5-Nitro-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Chloro-Aniline		N.D.	N.D.	N.D.	0.002	N.D.
4-Methoxy-m-phenylenediamine		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylenedianiline		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dichlorobenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethoxybenzidine		N.D.	N.D.	N.D.	0.002	N.D.
3,3'-Dimethylbenzidine		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Methylenedi-o-toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2-Methoxy-5-Methylaniline		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Methylene bis(2-chloroaniline)		N.D.	N.D.	N.D.	0.002	N.D.
4,4-Diaminodiphenylether		N.D.	N.D.	N.D.	0.002	N.D.
4,4'-Thioaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Toluidine		N.D.	N.D.	N.D.	0.002	N.D.
2,4-Toluenediamine		N.D.	N.D.	N.D.	0.002	N.D.
2,4,5-Trimethylaniline		N.D.	N.D.	N.D.	0.002	N.D.
o-Anisidine		N.D.	N.D.	N.D.	0.002	N.D.
4-Aminoazobenzol		N.D.	N.D.	N.D.	0.002	N.D.
Other PAAs	N.D.	N.D.	N.D.	0.002	0.01	

Remark:

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

Specific migration of acrylonitrile

With reference to (EU) No.10/2011 and EN 13130-3:2004. Analysis was performed by gas chromatography-mass spectrometer.

Parameter	Test Condition	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
		(1)			(2)				
		1 st	2 nd	3 rd	1 st	2 nd	3 rd		
Acrylonitrile	3%(w/v) Acetic acid, 40°C, 0.5 h	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.01	N.D.

Remark:

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

Specific migration of butadiene

With reference to (EU) No.10/2011 and CEN/TS 13130-15:2005. Analysis was performed by gas chromatography-mass spectrometer.

Parameter	Test Condition	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		(1)				
		1 st	2 nd	3 rd		
Butadiene	3%(w/v) Acetic acid, 40°C, 0.5 h	N.D.	N.D.	N.D.	0.01	N.D.

Remark:

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

Butadiene content

With reference to (EU) No.10/2011 and EN 13130-4:2004. Analysis was performed by gas chromatography-mass spectrometer.

Parameter	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(1)		
Butadiene	0.8	0.2	1

Remark:

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

3. MDL = Method Detection Limit

Peroxide value

With reference to European Pharmacopoeia 8.0, chapter 2.5.5.

Parameter	Result			Limit
	(1)	(2)	(3)	
Peroxide value	Negative	Negative	Negative	Negative

Volatile organic matter

With reference to LFGB BfR recommendation section VI.

Parameter	Test Condition	Result (mg/dm ²)		Limit (mg/dm ²)
		(1)	(2)	
Volatile organic matter	90°C, 24 h	2.4	5.3	15

Remark:

1. mg/dm² = milligram per square decimeter

PAHs content

With reference to AfPS GS 2019:01 PAK (PAH) - Testing and Validation of Polycyclic Aromatic Hydrocarbons (PAHs).

No.	Test Item	CAS No.	Result (mg/kg)			MDL (mg/kg)
			(1)	(2)	(3)	
1	Benzo[a]pyrene	50-32-8	N.D.	N.D.	N.D.	0.2
2	Benzo[e]pyrene	192-97-2	N.D.	N.D.	N.D.	0.2
3	Benzo[a]anthracene	56-55-3	N.D.	N.D.	N.D.	0.2
4	Benzo[b]fluoranthene	205-99-2	N.D.	N.D.	N.D.	0.2
5	Benzo[j]fluoranthene	205-82-3	N.D.	N.D.	N.D.	0.2
6	Benzo[k]fluoranthene	207-08-9	N.D.	N.D.	N.D.	0.2
7	Chrysene	218-01-9	N.D.	N.D.	N.D.	0.2
8	Dibenzo[a,h]anthracene	53-70-3	N.D.	N.D.	N.D.	0.2
9	Benzo[g,h,i]perylene	191-24-2	N.D.	N.D.	N.D.	0.2
10	Indeno[1,2,3-c,d]pyrene	193-39-5	N.D.	N.D.	N.D.	0.2
11	Phenanthrene	85-01-8	N.D.	N.D.	N.D.	0.2
12	Pyrene	129-00-0	N.D.	N.D.	N.D.	0.2

No.	Test Item	CAS No.	Result (mg/kg)			MDL (mg/kg)
			(1)	(2)	(3)	
13	Anthracene	120-12-7	N.D.	N.D.	N.D.	0.2
14	Fluoranthene	206-44-0	N.D.	N.D.	N.D.	0.2
15	Naphthalene	91-20-3	0.5	N.D.	N.D.	0.2
Sum of (11)~(14)		--	N.D.	N.D.	N.D.	--
Sum of 15 PAHs		--	0.5	N.D.	N.D.	--

Remark:

1. mg/kg = Milligram per kilogram
2. N.D. = Not Detected (Below MDL)
3. MDL = Method Detection Limit
4. Category Assessment = Category 1

Note:

Product Safety Commission (AfPS): The requirements of PAH testing in the course of GS mark certification.

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials in toys according to Directive 2009/48/ EC or materials in articles for use by children up to 3 years of long-term skin contact (longer than 30s) when used as intended(mg/kg)	Materials not covered in Cat. 1,with long-term skin contact (for longer than 30s) or repeated short-term Skin contact in case of intended or foreseeable use(mg/kg)		Materials that are not in cat. 1 or 2 cases, with short-term Skin contact (up to 30 s) at Proper or predictable Use(mg/kg)	
		Use by children	Other Consumer-Products	Use by children	Other Consumer-Products
Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Indeno[1,2,3-c,d]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Phenanthrene	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Pyrene					
Anthracene					
Fluoranthene					
Naphthalene	<1	<2		<10	

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be put in the mouth or materials in toys according to Directive 2009/48/ EC or materials in articles for use by children up to 3 years of long-term skin contact (longer than 30s) when used as intended(mg/kg)	Materials not covered in Cat. 1, with long-term skin contact (for longer than 30s) or repeated short-term Skin contact in case of intended or foreseeable use(mg/kg)		Materials that are not in cat. 1 or 2 cases, with short-term Skin contact (up to 30 s) at Proper or predictable Use(mg/kg)	
		Use by children	Other Consumer-Products	Use by children	Other Consumer-Products
Sum of 15 PAHs	<1	<5	<10	<20	<50

Total lead and cadmium

Microwave digestion. Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Parameter	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)		
Lead (Pb)	N.D.	N.D.	N.D.	10	100
Cadmium (Cd)	N.D.	N.D.	N.D.	10	100

Remark:

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

Chromium, vanadium, zirconium and hafnium content

Microwave digestion. Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES).

Parameter	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(3)		
Chromium (Cr)	N.D.	5	10
Vanadium (V)	N.D.	10	20
Zirconium (Zr)	N.D.	10	100
Hafnium (Hf)	N.D.	10	100

Remark:

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

Extractable heavy metals (23 elements)

With reference to European Resolution CM/Res(2013)9 on metals and alloys used in food contact materials and articles. Analyzed by inductively coupled plasma optical emission spectrometer (ICP-OES) and inductively coupled plasma mass spectrometer (ICP-MS).

Parameter	Result(s) of 1 st + 2 nd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(4)		
Aluminium (Al)	N.D.	0.2	35
Barium (Ba)	N.D.	0.2	8.4
Chromium (Cr)	N.D.	0.1	1.75
Copper (Cu)	N.D.	0.2	28
Iron (Fe)	0.283	0.2	280
Manganese (Mn)	N.D.	0.2	12.6
Nickel (Ni)	N.D.	0.1	0.98
Molybdenum (Mo)	N.D.	0.1	0.84
Magnesium (Mg)	N.D.	0.2	--
Titanium (Ti)	N.D.	0.2	--
Tin (Sn)	N.D.	2	700
Zinc (Zn)	N.D.	0.2	35
Beryllium (Be)	N.D.	0.02	0.07
Antimony (Sb)	N.D.	0.02	0.28
Mercury (Hg)	N.D.	0.004	0.021
Lithium (Li)	N.D.	0.02	0.336
Cobalt (Co)	N.D.	0.02	0.14
Silver (Ag)	N.D.	0.02	0.56
Lead (Pb)	N.D.	0.02	0.07
Vanadium (V)	N.D.	0.02	0.07
Arsenic (As)	N.D.	0.004	0.014
Cadmium (Cd)	N.D.	0.004	0.035
Thallium (Tl)	N.D.	0.0002	0.0007

Parameter	Result(s) of 3 rd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(4)		
Aluminium (Al)	N.D.	0.1	5
Barium (Ba)	N.D.	0.1	1.2

Parameter	Result(s) of 3 rd Migration (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(4)		
Chromium (Cr)	N.D.	0.05	0.25
Copper (Cu)	N.D.	0.1	4
Iron (Fe)	N.D.	0.1	40
Manganese (Mn)	N.D.	0.1	1.8
Nickel (Ni)	N.D.	0.05	0.14
Molybdenum (Mo)	N.D.	0.05	0.12
Magnesium (Mg)	N.D.	0.1	--
Titanium (Ti)	N.D.	0.1	--
Tin (Sn)	N.D.	1	100
Zinc (Zn)	N.D.	0.1	5
Beryllium (Be)	N.D.	0.01	0.01
Antimony (Sb)	N.D.	0.01	0.04
Mercury (Hg)	N.D.	0.002	0.003
Lithium (Li)	N.D.	0.01	0.048
Cobalt (Co)	N.D.	0.01	0.02
Silver (Ag)	N.D.	0.01	0.08
Lead (Pb)	N.D.	0.01	0.01
Vanadium (V)	N.D.	0.01	0.01
Arsenic (As)	N.D.	0.002	0.002
Cadmium (Cd)	N.D.	0.002	0.005
Thallium (Tl)	N.D.	0.0001	0.0001

Remark:

1. mg/kg = milligram per kilogram
2. N.D. = Not Detected (below MDL)
3. MDL = Method Detection Limit
4. The test condition was 0.5% citric acid at 40°C for 0.5 h.

---End of Report---