

# TEST REPORT

**APPLICANT** : Xindao B.V.

**ADDRESS** : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

**SAMPLE DESCRIPTION** : Lockable infuser bottle

**ITEM NO.** : P436.54

**COUNTRY OF ORIGIN** : China

**COUNTRY OF DESTINATION** : Europe

**SAMPLE RECEIVED DATE** : 23-Dec-2016

**TURN AROUND TIME** : 23-Dec-2016 to 06-Jan-2017

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	RESULT
PAHs limit according to REACH Annex XVII, Entry 50	Pass
PAHs limit according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass
Bisphenol A (BPA) Content	Pass
Overall Migration for Plastic	Pass
Specific Migration of Heavy Metal	Pass
Overall Migration for Silicone	Pass

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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

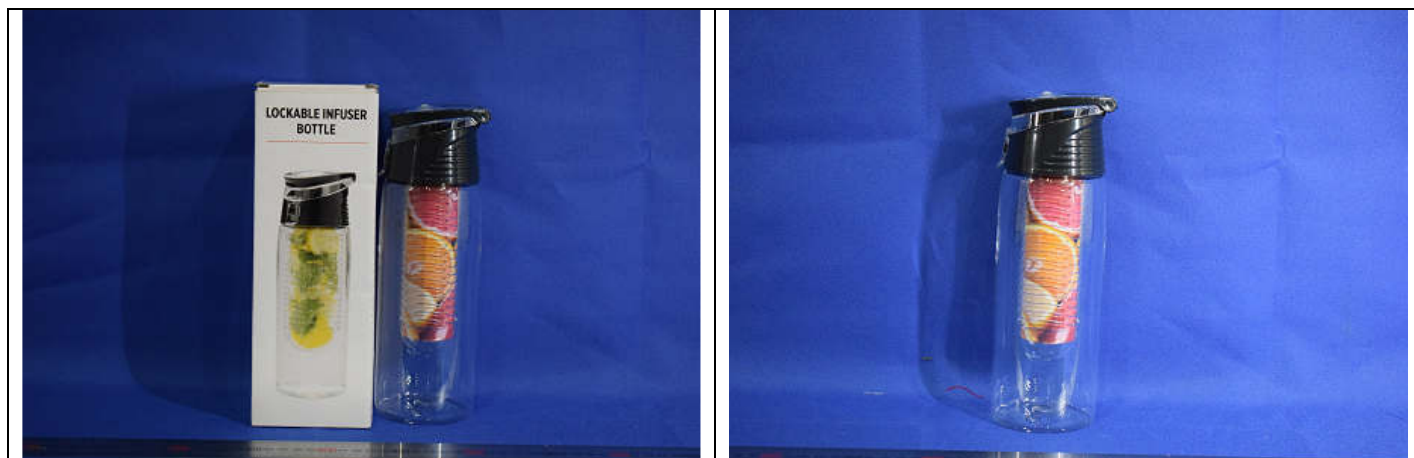
Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd



Joyce Liu  
Lab Manager

*Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info.sh@eurofins.com](mailto:info.sh@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [chinacomplaint@eurofins.com](mailto:chinacomplaint@eurofins.com) and referring to this report number.*

**SAMPLE PHOTO(S)**



**EFSH16090651-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

**COMPONENT LIST**

Component No.	Component
1	Black ABS lid
2	Transparent tritan body
3	Transparent tritan lid
4	As infuser
5	White silicone rubber

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result
					1
For rubber or plastic of toys or child use articles, will direct contact with skin and mouth.					
Benzo(a)anthracene	56-55-3	mg/kg	0.5	0.2	ND
Chrysene	218-01-9	mg/kg	0.5	0.2	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	0.5	0.2	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	0.5	0.2	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	0.5	0.2	ND
Benzo(a)pyrene	50-32-8	mg/kg	0.5	0.2	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.5	0.2	ND
Benzo(e)pyrene	192-97-2	mg/kg	0.5	0.2	ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result
			1
Benzo(a)pyrene	50-32-8	mg/kg	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND
Chrysene	218-01-9	mg/kg	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND
Naphthalene	91-20-3	mg/kg	ND
Sum 18 PAHs	-	mg/kg	ND
Summary to above mentioned requirement:	For Category 1		Pass

**Remark:**

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

**Table 1**

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys for children with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 seconds (long-term skin contact) or short-term repetitive contact with the human skin		Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)	
		-	Toys under Directive 2009/48/EC	Other products under ProdSG	Toys under Directive 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo(ghi)perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	<1 Sum*	<5 Sum*	<10 Sum*	<20 Sum*	<50 Sum*
Naphthalene	mg/kg	<1	<2		<10	
Sum* 18 PAHs	mg/kg	<1	<5	<10	<20	<50

\* = Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Bisphenol A (BPA) Content

Test Requested : In accordance with French Law No. 2012/1442, DGCCRF information notice 2004/64 and (EC) No 1935/2004 on materials in contact with foodstuffs.

Test Method : Extraction with organic solvent, analysis by GC-MS and LC-MS

Test item(s)	Limit	Unit	MDL	Result	
				1	4
Bisphenol A (BPA) content	Not Detectable	mg/kg	0.1	ND	ND

#### Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

### Overall Migration

Test Requested : To determine the Overall Migration for compliance with Commission Regulation (EU) No 10/2011 and its amendments relating to plastic materials and articles intended to come into contact with foodstuffs.

Test Method : By reference to EU 10/2011 for selection of test condition;  
With reference to EN1186-1:2002 for selection of test methods;  
or EN1186-3:2002 aqueous food simulants by total immersion method;  
or EN1186-9:2002 aqueous food simulants by article filling method;  
or EN1186-2:2002 olive oil by total immersion method;  
or EN1186-8:2002 olive oil by article filling method;  
or EN 1186-14:2002 substitute test

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	
				1	3
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10	<3.0	<3.0
50% Ethanol (V/V) Aqueous Solution	2hrs	70°C	10	<3.0	<3.0

Simulant used	Time	Temperature	Max. Permissible Limit (mg/kg)	Result (mg/kg)	
				2	4
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	60	<20	24
50% Ethanol (V/V) Aqueous Solution	2hrs	70°C	60	39	<20

#### Note:

- (1) mg/dm<sup>2</sup>=milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C=degree Celsius
- (4) <= less than
- (5) Analytical tolerance of aqueous simulants is 1 mg/dm<sup>2</sup> or 6mg/kg
- (6) Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup> or 20mg/kg
- (7) Test condition & simulant were specified by client.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Specific Migration of Heavy Metal

Test Requested : To determine the Specific Migration of Heavy Metal for compliance with Commission Regulation (EU) No 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

Test Method : With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-OES.

Simulant Used: 3% Acetic Acid (W/V) Aqueous Solution

Test Condition: 70°C 2hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result			
				1	2	3	4
Barium	1	mg/kg	0.25	ND	ND	ND	ND
Cobalt	0.05	mg/kg	0.05	ND	ND	ND	ND
Copper	5	mg/kg	0.25	ND	ND	ND	ND
Iron	48	mg/kg	0.25	ND	ND	ND	ND
Lithium	0.6	mg/kg	0.5	ND	ND	ND	ND
Manganese	0.6	mg/kg	0.05	ND	ND	ND	ND
Zinc	25	mg/kg	0.5	ND	ND	ND	ND

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected(<MDL)
- (4) Test condition & simulant were specified by client.

### Overall Migration

Test Requested : In accordance with Council of Europe Resolution AP (2004) 5.

Test Method : With reference to EN 1186-1:2002 for selection of conditions and test methods;  
or EN 1186-3:2002 aqueous food simulants by total immersion method;  
or EN 1186-9:2002 aqueous food simulants by article filling method;  
or EN 1186-2:2002 olive oil by total immersion method;  
or EN 1186-8:2002 olive oil by article filling method;  
or EN 1186-14:2002 substitute test.

Simulant used	Time	Temperature	Max. Permissible Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )
				5
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70°C	10	<3.0
50% Ethanol (V/V) Aqueous Solution	2hrs	70°C	10	<3.0

#### Note:

- (1) mg/dm<sup>2</sup> = milligram per square decimeter
- (2) Analytical tolerance of aqueous simulants is 1 mg/dm<sup>2</sup>
- (3) Analytical tolerance of fatty food simulants is 3 mg/dm<sup>2</sup>
- (4) Test condition & simulant were specified by client.

\*\*\*END OF THE REPORT\*\*\*