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TEST REPORT

APPLICANT : Xindao B.V.

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

SAMPLE DESCRIPTION : Swiss Peak Tritan bottle

ITEM NO. : P436.09

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION Europe

SAMPLE RECEIVED DATE : 23-Dec-2015

FURTHER INFORMATION DATE : 24-Dec-2015

TURN AROUND TIME : 24-Dec-2015 to 05-Jan-2016

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

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

Eurofins (Shanghai) contact information

Customer service: EmilyDeng@eurofins.com / 021-61819259 Sales specialist: WandyShen@eurofins.com / 18616155723

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

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

Terric Ji

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 sh.info@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.



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SAMPLE PHOTO



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COMPONENT LIST

Component No.	Component
1	Black tritan body
2	Black PP lid
3	Transparent silicone rubber
4	Grey silicone rubber ring on body



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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		
Parameter	CAS NO.	3132 1331		2	4	
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	ND	
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	ND	
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	ND	
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	ND	
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	ND	
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	ND	
Chrysene	218-01-9	mg/kg	ND	ND	ND	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	ND	
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	ND	
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	ND	ND	ND	
Naphthalene	91-20-3	mg/kg	ND	ND	ND	
Sum 18 PAHs	-	mg/kg	ND	ND	ND	
Summary to above mentioned requirement:	For Category 1		Pass	Pass	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.



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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 1, was foreseeable so for longer that seconds (long contact) or shape the human skell to the human skell to the seconds (long contact) or shape the human skell to the seconds (long contact) or shape the second contact) or shape the second contact (long contact) or shape the se	covered by vith skin contact in 30 g-term skin nort-term stact with kin	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.



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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

Tooted Item/o	Tested Item(s) CAS No. Unit Limit MDL	MDI		Result			
rested item(s)	CAS NO.	Unit Lim	Lilling	INIDE	1	2	4
For rubber or plastic will direct contact with skin and mouth.							
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	ND
Benzo(b)fluoranthene	205-99-2	ma/ka	1	0.2	ND	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	I	0.2	ND	ND	שוו
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	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.

Total Cadmium Content

Test Reguest: Total cadmium content as specified in Commission Regulation (EU) No 835/2012 amending

entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 1122:2001 Method B, acid digestion method was used and total cadmium content was

determined by ICP-OES.

Tested Item(s)	Unit	Limit	MDL	Result					
resteu itelli(s)	Ollit	Lillin	MIDL	1	2	3	4		
Total Cadmium(Cd)	%	0.01	0.0005	ND	ND	ND	ND		

Remark:

MDL = method detection limit ND = Not detected, less than MDL



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TEST RESULT

Bisphenol A

Test Request: Bisphenol A content as per client's request.

Test Method: With reference to EPA 3550C:2007, extraction by organic solvent, analysis with GC-MS.

Tested Item(s)	CAS No.	Unit	MDL	Result		
rested item(s)	CAS NO.	Oilit	IVIDL	1 2		
Bisphenol A	80-05-7	mg/kg	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	Test Result (mg/kg)		
Simulant Osed	Tille	remperature	Limit (mg/kg)	1	2	
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70℃	60	<20	<20	
50% Ethanol (V/V) Aqueous Solution	2hrs	70℃	60	<20	<20	

Note:

- (1) mg/kg = milligram per kilogram
- (2) Analytical tolerance of aqueous simulants is 6 mg/kg
- (3) Analytical tolerance of fatty food simulants is 20 mg/kg
- (4) Test condition & simulant were specified by client



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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

Toot Itom(a)	Max. Permissible	Unit	MDL	Test Result		
Test Item(s)	limit	Onit	MIDL	1	2	
Barium	1	mg/kg	0.25	ND	ND	
Cobalt	0.05	mg/kg	0.05	ND	ND	
Copper	5	mg/kg	0.25	ND	ND	
Iron	48	mg/kg	0.25	ND	ND	
Lithium	0.6	mg/kg	0.5	ND	ND	
Manganese	0.6	mg/kg	0.05	ND	ND	
Zinc	25	mg/kg	0.5	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/kg)	Test Result (mg/kg)
3% Acetic Acid (W/V) Aqueous Solution	2hrs	70℃	60	<20
50% Ethanol (V/V) Aqueous Solution	2hrs	70℃	60	<20

Note:

- (1) mg/kg = milligram per kilogram
- (2) Analytical tolerance of aqueous simulants is 6 mg/kg
- (3) Analytical tolerance of fatty food simulants is 20 mg/kg
- (4) Test condition & simulant were specified by client