

TEST REPORT

<u>APPLICANT</u>	: Xindao B.V.
<u>ADDRESS</u>	: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
<u>SAMPLE DESCRIPTION</u>	: Water bottle with infuser
<u>ITEM NO.</u>	: P436.05*
<u>COUNTRY OF ORIGIN</u>	: China
<u>COUNTRY OF DESTINATION</u>	: Europe
<u>SAMPLE RECEIVED DATE</u>	: 30-May-2014
<u>FURTHER INFORMATION DATE</u>	: 10-Jun-2014
<u>TURN AROUND TIME</u>	: 10-Jun-2014 To 11-Jun-2014, 2 working days
<u>TEST REQUESTED</u>	: Selected test(s) as requested by client
<u>TEST METHOD</u>	: Please refer to next page(s)
<u>TEST RESULTS</u>	: Please refer to next page(s)
<u>CONCLUSION</u>	<p>: When tested as specified, the submitted sample(s) (PP&tritan) comply with the overall migration requirements stated in European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011 on plastic materials and articles intended to come into contact with food.</p> <p>When tested as specified, the submitted sample(s) (PP&tritan) comply with the specific migration of heavy metal requirements stated in European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011 on plastic materials and articles intended to come into contact with food.</p> <p>When tested as specified, the submitted sample(s) (silicone rubber) comply with the overall migration stated in the Council of Europe Resolution AP (2004) 5 relating to silicone rubber materials and articles intended to come into contact with food.</p>

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

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



Chris Zhang
Lab Manager

SAMPLE PHOTO



EFSH14052195-CG

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	Transparent plastic body (tritan)
2	Translucent plastic screw top (PP)
3	Transparent plastic infuser (PP)
4	Grey plastic lid (PP)
5	Blue plastic flip top (tritan)
6	Orange plastic flip top (tritan)
7	Yellow plastic flip top (tritan)
8	Transparent silicone rubber

TO BE CONTINUED

TEST RESULT

Overall Migration

Test Requested : To determine the Overall Migration for compliance with European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011 relating to plastic materials and articles intended to come into contact with foodstuffs.

Test Method : With reference to EN1186-1:2002 for selection of conditions and 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	Result (mg/dm ²)			
				1	2	3	4
3% Acetic Acid	4hrs	40°C	10 mg/dm ²	<3.0	<3.0	<3.0	<3.0
20% Ethanol	4hrs	40°C	10 mg/dm ²	<3.0	<3.0	<3.0	<3.0

Simulant used	Time	Temperature	Max. Permissible Limit	Result (mg/dm ²)		
				5	6	7
3% Acetic Acid	4hrs	40°C	10 mg/dm ²	<3.0	<3.0	<3.0
20% Ethanol	4hrs	40°C	10 mg/dm ²	<3.0	<3.0	<3.0

Note:

- (1) mg/dm²=milligram per square decimeter
- (2) Analytical tolerance of aqueous simulants is 1 mg/dm²
- (3) Analytical tolerance of fatty food simulants is 3 mg/dm²
- (4) 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 European Commission Regulation (EU) No 10/2011 and its amendment (EU) No 1282/2011 on plastic materials and articles intended to come into contact with food.

Test Method : With reference to EU 10/2011 for selection of test method; analysis was performed by ICP-OES.

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

Test condition: 40°C 4hours

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	0.25	ND	ND	ND	ND
Zinc	25	mg/kg	0.5	ND	ND	ND	ND

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				5	6	7
Barium	1	mg/kg	0.25	ND	ND	ND
Cobalt	0.05	mg/kg	0.05	ND	ND	ND
Copper	5	mg/kg	0.25	ND	ND	ND
Iron	48	mg/kg	0.25	ND	ND	ND
Lithium	0.6	mg/kg	0.5	ND	ND	ND
Manganese	0.6	mg/kg	0.25	ND	ND	ND
Zinc	25	mg/kg	0.5	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.

TO BE CONTINUED

TEST RESULT

Overall migration

Test Requested : In accordance with Council of Europe Resolution AP (2004) 5.
For material: Silicone rubber – Overall migration test.

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	Result (mg/dm ²)
				8
Deionized Water	4hrs	40°C	10 mg/dm ²	<3.0
3% Acetic Acid	4hrs	40°C	10 mg/dm ²	4.55
20% Ethanol	4hrs	40°C	10 mg/dm ²	<3.0

Note:

- (1) mg/dm²=milligram per square decimeter
- (2) Analytical tolerance of aqueous simulants is 1 mg/dm²
- (3) Analytical tolerance of fatty food simulants is 3 mg/dm²
- (4) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Bisphenol A (BPA)

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

Tested Item(s)	Test Result (mg/kg)				M.D.L. (mg/kg)
	1	2	3	4	
BPA	ND	ND	ND	ND	0.1

Tested Item(s)	Test Result (mg/kg)				M.D.L. (mg/kg)
	5	6	7	8	
BPA	ND	ND	ND	ND	0.1

Note:

M.D.L. = method detection limit

ND = not detected, less than M.D.L.

*** END OF THE REPORT ***