



TEST REPORT

Test Report # 18A-000024 Date of Report Issue: January 12, 2018
Date of Sample Received: January 3, 2018 Pages: Page 1 of 11

CLIENT INFORMATION:

Company:

Address:



SAMPLE INFORMATION:

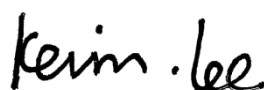
Product Name: Leak proof hydration tracking bottle
Model/style No.: P436.88x
Main Material: stainless steel +PP
Buyer: -
Supplier: -
Country of Distribution: EU
Testing Period: 01/03/2018-01/09/2018

OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION
TECHNOLOGY CO., LTD



Kevin Lee
Technical Manager

HANGZHOU ASIAINSPECTION TECHNOLOGY CO., LTD ♦ Email: Labtesting@asiainspection.com ♦ Tel: (86) 571 8999 7158
♦ 5/F A2 Building ♦ No. 1213 Huoju South Road ♦ Puyan Street ♦ Binjiang District ♦ Hangzhou ♦ China

The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
This test report may not be reproduced in whole or in part, without written approval of Hangzhou Asiainspection Technology Co., Ltd





TEST REPORT

Test Report # 18A-000024 Date of Report Issue: January 12, 2018
Date of Sample Received: January 3, 2018 Pages: Page 2 of 11

TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Client's requirement, Bisphenol A content
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and Council of Europe Resolution CM Res(2013)9 on metals and alloys used in food contact materials and articles - Specific release of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416 and Res AP(2004)5- Overall migration
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines



**DETAILED RESULTS:****German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)**

Test Method: AfPS GS 2014:01 PAK

Analytical Method: Gas Chromatography with Mass Spectrometry

Category 1: Materials, that are intended to be put in the mouth, or materials in toys with Intended and prolonged skin-Contact (Longer than 30 Seconds)

Specimen No.		2	-	-	-	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo (a) pyrene	50-32-8	ND	-	-	-	0.2
Benzo (e) pyrene	192-97-2	ND	-	-	-	0.2
Benzo (a) anthracene	56-55-3	ND	-	-	-	0.2
Benzo (b) fluoranthene	205-99-2	ND	-	-	-	0.2
Benzo (j) fluoranthene	205-82-3	ND	-	-	-	0.2
Benzo (k) fluoranthene	207-08-9	ND	-	-	-	0.2
Chrysene	218-01-9	ND	-	-	-	0.2
Dibenzo (a,h) anthracene	53-70-3	ND	-	-	-	0.2
Benzo (g,h,i) perylene	191-24-2	ND	-	-	-	0.2
Indeno (1,2,3-cd) pyrene	193-39-5	ND	-	-	-	0.2
Acenaphthylene	208-96-8	ND	-	-	-	
Acenaphthene	83-32-9	ND	-	-	-	
Fluorene	86-73-7	ND	-	-	-	
Phenanthrene	85-01-8	ND	-	-	-	
Pyrene	129-00-0	ND	-	-	-	
Anthracene	120-12-7	ND	-	-	-	
Fluoranthene	206-44-0	ND	-	-	-	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene		ND	-	-	-	1
Naphthalene	91-20-3	ND	-	-	-	1
Sum of 18 PAH		ND	-	-	-	1
Conclusion		PASS	-	-	-	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

HANGZHOU ASIAINSPECTION TECHNOLOGY CO., LTD

♦ Email: Labtesting@asiainspection.com ♦ Tel: (86) 571 8999 7158

♦ 5/F A2 Building ♦ No. 1213 Huoju South Road ♦ Puyan Street ♦ Binjiang District ♦ Hangzhou ♦ China

*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.**This test report may not be reproduced in whole or in part, without written approval of Hangzhou Asiainspection Technology Co., Ltd*

**DETAILED RESULTS:****Client's requirement, Bisphenol A content**

Test method: US EPA 3550C:2007 & US EPA 8270D:2014

Analytical Method: Gas Chromatography-Mass Spectrometer

Sample No.:	1	-	-	-	-	Client's limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	ND	-	-	-	-	Not Detected
Conclusion	PASS	-	-	-	-	

Note:

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 0.1mg/kg)



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 and Council of Europe Resolution CM Res(2013)9 on metals and alloys used in food contact materials and articles - Specific release of heavy metals**

Test method: Sample preparation in 0.5%(5g/L) citric acid at 70°C for 2hours, followed by analysis using ICP-MS

Specimen No:	4					
Test Item(s)	Unit	MDL	1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	0.24	0.28	0.015	0.04
Chromium (Cr)	mg/kg	0.1	0.44	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.01	0.014	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	5.3	280	ND	40
Magnesium(Mg)	mg/kg	0.1	ND	-	ND	-
Manganese (Mn)	mg/kg	0.5	ND	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.05	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.05	0.38	0.98	ND	0.14
Silver (Ag)	mg/kg	0.05	ND	0.56	ND	0.08
Tin ^{*3} (Sn)	mg/kg	5	ND	700	ND	100
Titanium(Ti)	mg/kg	0.1	ND	-	ND	-
Vanadium (V)	mg/kg	0.005	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.001	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.005	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.005	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	0.28	0.336	0.036	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001
Conclusion	PASS					

Note:

(1) mg/kg =milligram per kilogram

(2) SRL = Specific Release Limit

(3) *1 Compliance is established on the result from the third migration test for repeated used articles.

(4) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL

(5) *3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416 and Res AP(2004)5-
Overall migration**

Test method: EN1186-1:2002: for selection of conditions and test methods
EN1186-3:2002: aqueous food simulants by total immersion

Specimen No.		1	3	-	Maximum permissible Limit (mg/dm ²)
Simulant used	Test condition	Result (mg/dm ²)	Result (mg/dm ²)	Result (mg/dm ²)	
10% ethanol	1 hours at 100°C	ND	ND	-	10
Conclusion		PASS	PASS	-	

Note:

mg/dm² = milligram per square decimeter

ND = Not Detected (Reporting limit = 3 mg/dm²)

The overall migration value is expressed in mg/dm² applying the total contact surface of sealing article and sealed container



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- Specific migration of heavy metals**

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Specimen No.		1	-	-	-	Maximum permissible Limit (mg/kg)
Test Item	Detection limit	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Barium	0.1	ND	-	-	-	1
Cobalt	0.05	ND	-	-	-	0.05
Copper	0.5	ND	-	-	-	5
Iron	1.0	ND	-	-	-	48
Lithium	0.1	ND	-	-	-	0.6
Manganese	0.1	ND	-	-	-	0.6
Zinc	1.0	ND	-	-	-	5
Conclusion		PASS	-	-	-	

Note:

mg/kg=milligram per kilogram

ND= Not Detected



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Primary Aromatic Amines**

Test Method: To refer to the EN 13130-1:2004, the analysis was performed by Gas Chromatography with Mass Spectrometry.

Specimen No.		1	-	-	-	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Primary Aromatic Amines migration	70°C, 2h 3% Acetic acid	ND	-	-	-	Non-detectable
Conclusion		PASS	-	-	-	-

Note :

mg/kg = milligram per kilogram = ppm

MDL = Method Detection Limit

ND = Not Detected (Reporting Limit= 0.01mg/kg)

Primary Aromatic Amines List:

No.	Name	No.	Name
1	4-aminodiphenyl	14	p-cresidine
2	Benzidine	15	4,4'-methylene-bis-(2-chloroaniline)
3	4-chloro-o-toluidine	16	4,4'-oxydianiline
4	2-naphthylamine	17	4,4'-thiodianiline
5	o-aminoazotoluene	18	o-toluidine
6	2-amino-4-nitrotoluene	19	2,4-diaminotoluene
7	p-chloroaniline	20	2,4,5-trimethylaniline
8	2,4-diaminoanisole	21	2-methoxyaniline
9	4,4'-diaminodiphenylmethane	22	4-aminoazobenzene
10	3,3'-dichlorobenzidine	23	2,4-Xylidine
11	3,3'-dimethoxybenzidine	24	2,6-Xylidine
12	3,3'-dimethylbenzidine	25	p-Phenylenediamine
13	3,3'-dimethyl-4,4'-diaminodiphenylmethane	26	Aniline





Test Report #

18A-000024

Pages:

Page 9 of 11

SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Blue PP	Lid
2	Black plastic	Lid
3	White silicone	Sealing ring
4	Silver stainless steel	Interior

HANGZHOU ASIAINSPECTION TECHNOLOGY CO., LTD ♦ Email: Labtesting@asiainspection.com ♦ Tel: (86) 571 8999 7158
♦ 5/F A2 Building ♦ No. 1213 Huoju South Road ♦ Puyan Street ♦ Binjiang District ♦ Hangzhou ♦ China

The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
This test report may not be reproduced in whole or in part, without written approval of Hangzhou Asiainspection Technology Co., Ltd





SAMPLE PHOTO:





SAMPLE PHOTO:



-End Report-

