



TEST REPORT

Test Report # 18A-004780-1 Date of Report Issue: November 20, 2018
Date of Sample Received: October 24, 2018 Pages: Page 1 of 12

CLIENT INFORMATION:

Company: Anhui Inno-Sign International Co.,Ltd
Address: Room 1409 1410,Building B,Sky Blue Business Center,No.188 South Qianshan Road,Hefei,Anhui Province,China



SAMPLE INFORMATION:

Product Name: Hydrate leak proof lockable tritan bottle
Model/style No.: P436.28
Main Material: -
Buyer: -
Supplier: -
Country of Distribution: EU
Testing Period: 10/24/2018-11/02/2018

OVERALL RESULT:

PASS

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

HANGZHOU ASIAINSPECTION
TESTING TECHNOLOGY CO., LTD

Kevin Lee

Kevin Lee
Technical Manager



HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD ♦ Email: Labtesting@asiainspection.com ♦ Tel: (86)571-89997158
♦ 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 Testing Technology Co., Ltd



TEST REPORT

Test Report # 18A-004780-1 Date of Report Issue: November 20, 2018
Date of Sample Received: October 24, 2018 Pages: Page 2 of 12

TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	Client's requirement, Bisphenol A content
PASS	German Product Safety Act (ProdSG) Article 21 (1) No. 3, Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 , 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
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test
PASS	Regulation (EC) No 1935/2004, (EU) No 10/2011 -Specific migration of Bisphenol A



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

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

Analytical Method: Gas Chromatography-Mass Spectrometer

Sample No.:	1	2	3	---	---	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	ND	ND	---	---	Not Detected
Conclusion	PASS	PASS	PASS	---	---	

Note:

mg/kg=milligram per kilogram

ND=Not Detected(Reporting limit = 1mg/kg)



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

Test Method: AfPS GS 2014:01

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.		1	2	3	---	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	ND	ND	---	0.2
Benzo (e) pyrene	192-97-2	ND	ND	ND	---	0.2
Benzo (a) anthracene	56-55-3	ND	ND	ND	---	0.2
Benzo (b) fluoranthene	205-99-2	ND	ND	ND	---	0.2
Benzo (j) fluoranthene	205-82-3	ND	ND	ND	---	0.2
Benzo (k) fluoranthene	207-08-9	ND	ND	ND	---	0.2
Chrysene	218-01-9	ND	ND	ND	---	0.2
Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	---	0.2
Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	---	0.2
Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	---	0.2
Acenaphthylene	208-96-8	ND	ND	ND	---	
Acenaphthene	83-32-9	ND	ND	ND	---	
Fluorene	86-73-7	ND	ND	ND	---	
Phenanthrene	85-01-8	ND	ND	ND	---	
Pyrene	129-00-0	ND	ND	ND	---	
Anthracene	120-12-7	ND	ND	ND	---	
Fluoranthene	206-44-0	ND	ND	ND	---	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene		ND	ND	ND	---	1
Naphthalene	91-20-3	ND	ND	ND	---	1
Sum of 18 PAH		ND	ND	ND	---	1
Conclusion		PASS	PASS	PASS	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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

HANGZHOU ASIAINSPECTION TESTING 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 Testing Technology Co., Ltd

**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 -Sensorial examination odour and taste test**

Test Method: DIN 10955: 2004

Test condition: 70°C, 2 hours

Test media: Distilled water

No. of panelist: 6

Specimen No.	4	---	---	---	Max.Permissible
Test Item	Result	Result	Result	Result	Limit
Sensorial examination odour (Point scale)	0	---	---	---	2.5
Sensorial examination taste (Point scale)	0	---	---	---	2.5
Conclusion	PASS	---	---	---	

Scale evaluation:

0: No perceptible odour

1: Odour just perceptible (still difficult to define)

2: Moderate odour

3: Moderately strong odour

4: Strong odour



**DETAILED RESULTS:****Regulation (EC) No 1935/2004, (EU) No 10/2011 , 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

EN1186-9:2002: aqueous food simulants by article filling

Specimen No.		1	2	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	2 hours at 70°C	ND	ND	ND	10
3% acetic acid	2 hours at 70°C	ND	ND	4	10
Conclusion		PASS	PASS	PASS	

*Note:*mg/dm² = milligram per square decimeterND = Not Detected (Reporting limit = 3 mg/dm²)

**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/ Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.		1	3	---	---	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	ND	---	---	1
Cobalt	0.05	ND	ND	---	---	0.05
Copper	0.5	ND	ND	---	---	5
Iron	1.0	ND	ND	---	---	48
Lithium	0.1	ND	ND	---	---	0.6
Manganese	0.1	ND	ND	---	---	0.6
Zinc	1.0	ND	ND	---	---	5
Aluminum	0.1	ND	ND	---	---	1
Nickel	0.01	ND	ND	---	---	0.02
Conclusion		PASS	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	3	---	---	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	ND	---	---	Non-detectable
Conclusion		PASS	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



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

Test method: EN 13130-1:2004 & DD CEN/TS 13130-13:2005

Specimen No.		3	---	---	---	---	Limit (mg/kg)
Test Item	Test condition	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Bisphenol A (BPA)	70°C, 2h 3% Acetic acid	ND	---	---	---	---	0.05
Conclusion		PASS	---	---	---	---	

Note :

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.05mg/kg)



**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Grey plastic	Lid of blue style(hydrate leak proof lockable tritan bottle)
2	Translucent plastic	Sealing ring of blue style(hydrate leak proof lockable tritan bottle)
3	Transparent blue plastic	Shell of blue style(hydrate leak proof lockable tritan bottle)





SAMPLE PHOTO:





SAMPLE PHOTO:



-End Report-

