



# TEST REPORT

Test Report # 17A-002853-7-E Date of Report Issue: September 20, 2017  
Date of Sample Received: September 1, 2017 Pages: Page 1 of 14

## CLIENT INFORMATION:

Company: XINDAO BV  
Address: Verrijn Stuartlaan 1D 2288EK Rijswijk,  
the Netherlands



## SAMPLE INFORMATION:

Product Name: bottle with speaker  
Model/style No.: -  
Main Material: -  
Buyer: -  
Supplier: -  
Country of Distribution: EU  
Testing Period: 09/01/2017-09/13/2017

## OVERALL RESULT:

**PASS**

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

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.  
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# TEST REPORT

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## TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Sensorial examination odour and taste test
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Overall migration
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific migration of heavy metals
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB)Section 30 & 31 and BfR recommendation-Total lead and total cadmium content
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation- Volatile Organic Matter
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments –Specific Migration of Colourants
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments –Specific Migration of Colourants
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific migration of Bisphenol A
PASS	Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific release of heavy metals
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation-Extractable Components
PASS	German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation-Polycyclic Aromatic Hydrocarbon (PAH)



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -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.	5	-	-	-	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
<b>Conclusion</b>	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:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - 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	-	-	Maximum permissible Limit (mg/dm <sup>2</sup> )
Simulant used	Test condition	Result (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	
10% ethanol	2 hours at 70°C	ND	-	-	10
Conclusion		PASS	-	-	

Specimen No.		3	-	-	Maximum permissible Limit (mg/dm <sup>2</sup> )
Simulant used	Test condition	Result (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )	
Water	2 hours at 70°C	ND	-		10
Conclusion		PASS	-	-	

**Note:**

mg/dm<sup>2</sup> = milligram per square decimeter

ND = Not Detected (Reporting limit = 3 mg/dm<sup>2</sup>)

The overall migration value is expressed in mg/dm<sup>2</sup> applying the total contact surface of sealing article and sealed container



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -Specific migration of heavy metals**

Test method: Sample preparation in 3% acetic acid at 70°C for 2hours, followed by analysis Inductively Coupled Plasma Optical Emission

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
Conclusion		PASS	PASS	-	-	

**Note:**

mg/kg=milligram per kilogram

ND= Not Detected

The specific migration values apply the real surface to volume ratio in actual or foreseen use.

Container volume: 650mL



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB)Section 30 & 31 and BfR recommendation-Total lead and total cadmium content**

Analysis performed by Inductively Coupled Plasma-Optical Emission Spectrometry to determine compliance with the above referenced specification.

[Referenced Test Method: AI | HANGZHOU Method]

Specimen No.	1	2	3	-	-	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Pb	ND	ND	ND	-	-	<b>90</b>
Total Cd	ND	ND	ND	-	-	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	-	-	

Note:

Pb=Lead

Cd=Cadmium

mg/kg = Milligrams per kilogram

ND = Not detected(reporting limit=15mg/kg)



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation- Volatile Organic Matter**

Analysis performed by gravimetric method to determine compliance with the above referenced regulation.  
[Referenced Test Method: Bundesgesundheitsbl. 22 (1979) P339<sup>#</sup>]

Specimen No.	2				Limit (%w/w)
Test Item	Result (% w/w)	Result (% w/w)	Result (% w/w)	Result (% w/w)	
Volatile Organic Matter	ND				0.5
Conclusion	PASS				

*Note:*

% w/w = Percent by weight

ND = Not detected (Reporting Limit = 0.1%)

LT = Less than



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments –Specific Migration of Colourants**

food simulant	test duration/temperature
3% acetic acid, 10% ethanol	5 h / 50°C
10% ethanol	5 h / 50°C
20% ethanol	5 h / 50°C
20% ethanol	5 h / 50°C
Isooctane	5 h / 50°C

Specimen No.	2	-	-
Parameter Conditions of migration	Result	Result	Result
3% acetic acid	No visible migration	-	-
10% ethanol	No visible migration	-	-
20% ethanol	No visible migration		
20% ethanol	No visible migration		
Isooctane	No visible migration		
<b>Conclusion</b>	PASS	-	-

According to AP(89)1, colourants should be sufficiently integrated within plastic materials and articles so as to preclude any visible migration into foodstuffs under normal conditions of use, as determined by appropriate method.





**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments -Specific migration of Bisphenol A**

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

Specimen No.		3	-	-	-	-	Limit
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	-	-	-	-	0.6
<b>Conclusion</b>		PASS	-	-	-	-	

*Note :*

mg/kg = milligram per kilogram = ppm

ND = Not Detected (Reporting Limit= 0.02mg/kg )



**DETAILED RESULTS:****Commission Regulation (EU) No 10/2011 and German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments - Specific release of heavy metals**

Test method: Sample preparation in 0.5%(5g/L) citric acid at 100°C for 1hours, followed by analysis using ICP-OES&ICP-MS

Specimen No:	4					
Test Item(s)	Unit	MDL	1 <sup>st</sup> + 2 <sup>nd</sup> Migration		3 <sup>rd</sup> Migration	
			Result	7xSRL <sup>*2</sup>	Result	SRL <sup>*1</sup>
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.1	ND	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.01	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	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	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.05	ND	0.56	ND	0.08
Tin <sup>*3</sup> (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	ND	0.336	ND	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:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation, Extractable Components**

Analysis performed by food simulating solvents extractions to determine compliance with the above referenced regulation. [Referenced Test Method: 61<sup>st</sup> Communication on testing of plastics in Bundesgesundheitsblatt 46 (2003) 362<sup>#</sup>]

Specimen No.			2	-	-	Limit (% w/w)
Test Simulant	Test Condition		Result (% w/w)	Result (% w/w)	Result (% w/w)	
	Temperature	Duration				
10% Ethanol	Reflux	5 hours	ND	-	-	0.5
Conclusion			PASS	-	-	

*Note:*

°C = Degree Celsius

% w/w = Percent by weight

LT = Less than

ND = Not detected (Reporting Limit = 0.1 %)



**DETAILED RESULTS:****German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB) Section 30 and BfR recommendation-Polycyclic Aromatic Hydrocarbon (PAH)**

Test Method: AfPS GS 2014:01 PAHs

Analytical Method: Gas Chromatography with Mass Spectrometry

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	0.5	ND	ND	-	1
Sum of 18 PAH		0.5	ND	ND	-	1
<b>Conclusion</b>		PASS	PASS	PASS	-	

**Note:**

mg/kg = Milligrams per kilogram

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



**SPECIMEN DESCRIPTION:**

Sample No.	Specimen Description	Location
1	White PP	Inner lid
2	Grey silicone	Silicone ring
3	Transparent plastic	Body of bottle
4	304 stainless steel	Body of bottle
5	Bottle with speaker	Finished products





**SAMPLE PHOTO:**



-End Report-

