



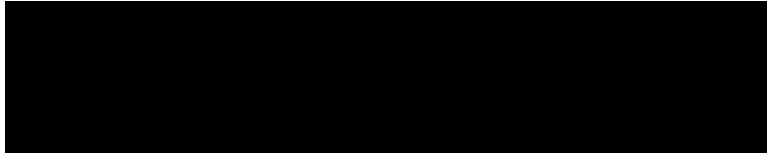
TEST REPORT

Test Report # 17A-002853-3-E Date of Report Issue: September 20, 2017
Date of Sample Received: September 1, 2017 Pages: Page 1 of 9

CLIENT INFORMATION:

Company:

Address:



SAMPLE INFORMATION:

Product Name: bottle with speaker
Model/style No.: -
Main Material: -
Buyer: -
Supplier: -
Country of Distribution: EU
Testing Period: 09/01/2017-09/08/2017

OVERALL RESULT:

**PASS with
information**

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

HANGZHOU ASIAINSPECTION
TECHNOLOGY CO., LTD

Kevin Lee

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.
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TEST REPORT

Test Report # 17A-002853-3-E Date of Report Issue: September 20, 2017
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TEST RESULTS SUMMARY:

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

CONCLUSION	TEST(S) CONDUCTED
PASS	FDA 21 CFR 177.1520, Polypropylene Homopolymers
PASS	FDA 21 CFR 177.1210, Closures with Sealing Gaskets
PASS	FDA 21 CFR 177.1580, Polycarbonate Resins
PASS	FDA GRAS Specifications, Total Chromium in Stainless Steel
Refer to Detailed Results	FDA/GRAS Evaluation- Component content



**DETAILED RESULTS:****FDA 21 CFR 177.1520, Polypropylene Homopolymers**

Test Method: FDA 21 CFR 177.1520

Specimen No.			1	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Density (g/cc)	NA	NA	0.902	NA	0.880 – 0.913
Melting point (°C)	NA	NA	166.5	NA	150 – 180
n-Hexane extractive (% w/w)	Reflux	2 hours	2.87	0.1	6.4
Xylene extractive (% w/w)	25°C	1 hour	6.05	0.5	9.8
Conclusion			PASS		

Note:

Temp. = Temperature

°C = Degree Celsius

g/cc = Grams per cubic centimeter

% w/w = Percent by weight

NA = Not applicable

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 177.1520 (c) 1.1.



**DETAILED RESULTS:****FDA 21 CFR 177.1210, Closures with Sealing Gaskets**Test Method: FDA 21 CFR 177.1210[#]

Specimen No.			2	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (ppm)	Fill boiling	cool to 100 °F	ND	10	50
n-Heptane extractive (ppm)	120 °F,	15min	ND	10	50
8% Ethanol extractive (ppm)	Fill boiling	cool to 100 °F	ND	10	50
Conclusion			PASS		

Note:

Temp. = Temperature

°F = Degree Fahrenheit

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 177.1210 Table 2 Section 3.



**DETAILED RESULTS:****FDA 21 CFR 177.1580, Polycarbonate Resins**Test Method: FDA 21 CFR 177.1580[#]

Specimen No.			3	RL	Limit
Test Item	Test Condition		Result		
	Temp.	Duration			
Distilled water extractive (% m/m)	Reflux	6 hours	0.13	0.015	0.15
n-Heptane extractive (% m/m)	Reflux	6 hours	0.05	0.015	0.15
50% Ethanol extractive (% m/m)	Reflux	6 hours	ND	0.015	0.15
Conclusion			PASS		

Note:

Temp. = Temperature

% (m/m) = Percent by mass

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

Remark:

The specification is quoted from 21 CFR 177.1580 (c) 2.



**DETAILED RESULTS:****FDA GRAS Specifications, Total Chromium in Stainless Steel**

Test Method: GB/T 223.11-2008

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Cookware and Food Containers

Specimen No.	4	-	-	-	-	Limit (% m/m)
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Total Chromium (Cr)	18.08	-	-	-	-	GT 16
Conclusion	PASS	-	-	-	-	

Note:

% m/m = Percent by mass

GT = Greater than

Remark:

The limit is quoted from ANSI/NSF 51-1997 Section 7.1.2.



**DETAILED RESULTS:****FDA/GRAS Evaluation- Component content**

Test method: GB/T 20123-2006 & SN/T 2718-2010

Test result: The sample **meet** the chemical requirements of AISI 304 stainless steel.

Specimen No.:	4	-	-	-	-
Test Item	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)
Carbon (C)	0.05	-	-	-	-
Sulphur (S)	0.004	-	-	-	-
Silicon (Si)	0.538	-	-	-	-
Manganese (Mn)	1.12	-	-	-	-
Phosphorus (P)	0.027	-	-	-	-
Chromium (Cr)	18.08	-	-	-	-
Nickel (Ni)	8.24	-	-	-	-
Type of Stainless steel Name	AISI 304	-	-	-	-
Conclusion	Information only	-	-	-	-

Note:

% m/m = Percent by mass

LT = Less than

The test is carried out by external laboratory assessed as competent

Type of Stainless steel Name	C	Si	Mn	P	S	Cr	Ni	Mo	Cu
AISI 304	≤0.08	≤1.00	≤2.00	≤0.045	≤0.03	18~20	8~11	-	-



**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





SAMPLE PHOTO:



-End Report-

