



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.

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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 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 | - | - |





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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 |

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SAMPLE PHOTO:



-End Report-

