



# TEST REPORT

Test Report # 18A-003496-2 Date of Report Issue: September 4, 2018  
Date of Sample Received: August 23, 2018 Pages: Page 1 of 9

## CLIENT INFORMATION:

Company:

Address:



## SAMPLE INFORMATION:

Product Name: ① Vacuum Bottle With Bluetooth Speaker; ② Vacuum Bottle With Wireless Charging; ③ Vacuum Bottle With Wireless Earbuds  
Model/style No.: ① P433.452; ② P433.422  
Main Material: -  
Buyer: -  
Supplier: -  
Country of Distribution: EU  
Testing Period: 08/24/2018-08/30/2018

## 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 RESULTS SUMMARY:

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

| CONCLUSION | TEST(S) CONDUCTED   |
|------------|---|
| PASS       | Regulation (EC) No 1935/2004, (EU) No 10/2011 and its amendment (EU) 2016/1416- 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 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 |



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

Test method: EN1186-1:2002: for selection of conditions and test methods

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

| Specimen No.      |                  | 1                            | 2                            | ---                          | 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> ) |   |
| 3% acetic acid    | 2 hours at 100°C | 4                            | ND                           | ---                          | 10  |
| <b>Conclusion</b> |                  | PASS                         | PASS                         | ---                          |   |

*Note:*mg/dm<sup>2</sup> = milligram per square decimeterND = 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:****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 24hours

Analytical Method: Inductively Coupled Plasma-Optical Emission 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                                 |
| Aluminum          | 0.1             | ND             | ---            | ---            | ---            | 1                                 |
| Nickel            | 0.01            | ND             | ---            | ---            | ---            | 0.02                              |
| <b>Conclusion</b> |                 | 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<br>(mg/kg) |
|-----------------------------------|-----------------------------|-------------------|-------------------|-------------------|-------------------|------------------|
| Test Item                         | Test condition              | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) | Result<br>(mg/kg) |                  |
| Primary Aromatic Amines migration | 70°C, 24h<br>3% Acetic acid | ND                | ---               | ---               | ---               | Non-detectable   |
| <b>Conclusion</b>                 |                             | 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 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/ Artificial tap water at 70°C for 24hours

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry &amp; Inductively Coupled Plasma-Mass Spectrometry

| Specimen No:           | 3     |         |   |                     |                           |                   |
|------------------------|-------|---------|---|---------------------|---------------------------|-------------------|
| 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)



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SPECIMEN DESCRIPTION:

| Specimen No. | Specimen Description     | Location                  |
|--------------|--------------------------|---------------------------|
| 1            | Black plastic            | Lid (silvery style)       |
| 2            | Translucent soft plastic | Seal ring (silvery style) |
| 3            | Silvery metal            | Interior (silvery style)  |





**SAMPLE PHOTO:**







**SAMPLE PHOTO:**



-End Report-

