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## Test Report

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Report No. : AGC05443251017-001

**SAMPLE NAME** : Single wall bottle  
**MODEL NAME** : MO2903  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Oct. 24, 2025

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Report No.: AGC05443251017-001

Applicant : MID OCEAN BRANDS B.V.  
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : Single wall bottle  
Model : MO2903  
Vendor code : 114276  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample receiving state : Normal  
Sample Received Date : Oct. 17, 2025  
Testing Period : Oct. 17, 2025 to Oct. 24, 2025  
Test Requested : Selected test(s) as requested by client.

Approved by: 

Suhongliang

Technical Director

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**Test Requested:**
**Conclusion**

Mechanical dishwashing safe test

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63  
- Lead(Pb) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23  
-Cadmium(Cd) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52  
- Phthalates Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50  
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Regulation 1935/2004/EC, Regulation (EU) No 10/2011, Council of Europe Resolution AP (2004)5  
- Overall Migration

Pass

Regulation 1935/2004/EC, Regulation (EU) No 10/2011  
- Specific migration of Primary Aromatic Amine

Pass

Regulation 1935/2004/EC, Regulation (EU) No 10/2011  
- Specific migration of Heavy metals

Pass

Regulation 1935/2004/EC, Regulation (EU) No 10/2011 and Regulation (EU) 2024/3190, Council of Europe Resolution AP (2004)5  
- Bisphenol A (BPA) content

Pass

DM-4B-COM-003-v01  
- Peroxides

Pass

DM-4B-COM-003-v01  
- Volatile Organic Matter

Pass

DM-4B-COM-003-v01  
- Specific Migration of Organotin (measured as Tin)

Pass

Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2020)9  
- Specific migration of Heavy metal

Pass

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## Report Revise Record

| Report Version | Issued Date   | Valid Version | Notes           |
|----------------|---------------|---------------|-----------------|
| /              | Oct. 24, 2025 | Valid         | Initial release |

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### The photo of the sample



The photo of AGC05443251017-001 is for use only with the original report.

### Test Point Description

| Test point | Test point description |
|------------|------------------------|
| 1-1        | Dark blue coating      |
| 1-2        | Dark green coating     |
| 1-3        | Black coating          |
| 1-4        | Metal bottle body      |
| 1-5        | Black plastic lid      |
| 1-6        | Dark green plastic lid |
| 1-7        | Navy plastic lid       |
| 1-8        | Black silicone sealing |
| 1-9        | Metal outer lid        |
| 1-10       | Navy soft handle       |
| 1-11       | Black soft handle      |
| 1-12       | Dark green soft handle |

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### Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%,

N/A= Not Applicable

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

### Mechanical dishwashing safe test

|  |
|--|
| <b>Test Result of mechanical dishwashing safe test:</b>  |
| Requirements:For dishwasher safe test, if there is no noticeable change in appearance (e.g. color, size and shape) and function, it should be "PASS"   |
| Sample No.: MO2903、1-3、1-4、1-5、1-8、1-9、1-11<br>Test method: Refer BS EN 12875 -1-2005<br>Washing temperature: 60°C<br>Number of cycle: 10 cycles<br>Number of tested sample: 2 pc(s).<br>Number of control sample: 1 pc(s).  |
| For all tested plastic or metal articles:<br>No visible change of color, gloss and clouding was found on the tested samples after wash.<br>No visible deposit or iridescent layer was found on the tested samples after wash.<br>No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash. |

### Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

#### - Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Test Item(s) | Unit  | Limit | MDL | Test Result(s) |            |             |
|--------------|-------|-------|-----|----------------|------------|-------------|
|              |       |       |     | 1-1+1-2+1-3    | 1-4        | 1-5+1-6+1-7 |
| Lead(Pb)     | mg/kg | 500   | 10  | N.D.           | N.D.       | N.D.        |
| Conclusion   |       |       |     | Conformity     | Conformity | Conformity  |

| Test Item(s) | Unit  | Limit | MDL | Test Result(s) |            |                |
|--------------|-------|-------|-----|----------------|------------|----------------|
|              |       |       |     | 1-8            | 1-9        | 1-10+1-11+1-12 |
| Lead(Pb)     | mg/kg | 500   | 10  | N.D.           | N.D.       | N.D.           |
| Conclusion   |       |       |     | Conformity     | Conformity | Conformity     |

Remark:

- As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6+1-7,1-10+1-11+1-12

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# Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

## -Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Test Item(s) | Unit  | Limit | MDL | Test Result(s) |             |
|--------------|-------|-------|-----|----------------|-------------|
|              |       |       |     | 1-1+1-2+1-3    | 1-5+1-6+1-7 |
| Cadmium(Cd)  | mg/kg | 100   | 10  | N.D.           | N.D.        |
| Conclusion   |       |       |     | Conformity     | Conformity  |

| Test Item(s) | Unit  | Limit | MDL | Test Result(s) |                |
|--------------|-------|-------|-----|----------------|----------------|
|              |       |       |     | 1-8            | 1-10+1-11+1-12 |
| Cadmium(Cd)  | mg/kg | 100   | 10  | N.D.           | N.D.           |
| Conclusion   |       |       |     | Conformity     | Conformity     |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6+1-7,1-10+1-11+1-12

# Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52

## - Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

| Test Item(s)   | Unit | Limit | MDL   | Test Result(s) |             |
|--|------|-------|-------|----------------|-------------|
|  |      |       |       | 1-1+1-2+1-3    | 1-5+1-6+1-7 |
| Diisobutyl phthalate (DIBP)<br>CAS:84-69-5                 | %    | 0.1   | 0.005 | N.D.           | N.D.        |
| Dibutyl phthalate (DBP)<br>CAS:84-74-2                     | %    | 0.1   | 0.005 | N.D.           | N.D.        |
| Butylbenzyl phthalate (BBP)<br>CAS:85-68-7                 | %    | 0.1   | 0.005 | N.D.           | N.D.        |
| Di-(2-ethylhexyl) Phthalate (DEHP)<br>CAS:117-81-7         | %    | 0.1   | 0.005 | N.D.           | N.D.        |
| Di-n-octyl phthalate (DNOP)<br>CAS:117-84-0                | %    | /     | 0.005 | N.D.           | N.D.        |
| Di-isononyl phthalate (DINP)<br>CAS:28553-12-0, 68515-48-0 | %    | /     | 0.005 | N.D.           | N.D.        |
| Di-isodecyl phthalate(DIDP)<br>CAS:26761-40-0, 68515-49-1  | %    | /     | 0.005 | N.D.           | N.D.        |
| Sum of DIBP +DBP+BBP+DEHP                                  | %    | 0.1   | /     | N.D.           | N.D.        |
| Sum of DNOP+DINP+DIDP                                      | %    | 0.1   | /     | N.D.           | N.D.        |
| Conclusion   |      |       |       | Conformity     | Conformity  |

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| Test Item(s)   | Unit | Limit | MDL   | Test Result(s) |                |
|--|------|-------|-------|----------------|----------------|
|  |      |       |       | 1-8            | 1-10+1-11+1-12 |
| Diisobutyl phthalate (DIBP)<br>CAS:84-69-5                 | %    | 0.1   | 0.005 | N.D.           | N.D.           |
| Dibutyl phthalate (DBP)<br>CAS:84-74-2                     | %    | 0.1   | 0.005 | N.D.           | N.D.           |
| Butylbenzyl phthalate (BBP)<br>CAS:85-68-7                 | %    | 0.1   | 0.005 | N.D.           | N.D.           |
| Di-(2-ethylhexyl) Phthalate (DEHP)<br>CAS:117-81-7         | %    | 0.1   | 0.005 | N.D.           | N.D.           |
| Di-n-octyl phthalate (DNOP)<br>CAS:117-84-0                | %    | /     | 0.005 | N.D.           | N.D.           |
| Di-isononyl phthalate (DINP)<br>CAS:28553-12-0, 68515-48-0 | %    | /     | 0.005 | N.D.           | N.D.           |
| Di-isodecyl phthalate(DIDP)<br>CAS:26761-40-0, 68515-49-1  | %    | /     | 0.005 | N.D.           | N.D.           |
| Sum of DIBP +DBP+BBP+DEHP                                  | %    | 0.1   | /     | N.D.           | N.D.           |
| Sum of DNOP+DINP+DIDP                                      | %    | 0.1   | /     | N.D.           | N.D.           |
| Conclusion   |      |       |       | Conformity     | Conformity     |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6+1-7,1-10+1-11+1-12

#### Limit requirements of Phthalates

|  |  |
|--|--|
| Toys and childcare articles  | Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1% |
| Toys and childcare articles which can be placed in the mouth by children | The sum of DINP+DIDP+DNOP is less than 0.1%  |

#### **Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50**

#### **- Polycyclic-aromatic Hydrocarbons (PAHs) Content**

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

| Test Item(s)                | Unit  | Limit | MDL | Test Result(s) |             |
|-----------------------------|-------|-------|-----|----------------|-------------|
|                             |       |       |     | 1-1+1-2+1-3    | 1-5+1-6+1-7 |
| Benzo[a]pyrene(BaP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Benzo[e]pyrene(BeP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Benzo[a]anthracene(BaA)     | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Benzo[b]fluoranthene(BbF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Benzo[j]fluoranthene(BjFA)  | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Benzo[k]fluoranthene(BkF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Chrysene(CHR)               | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1     | 0.1 | N.D.           | N.D.        |
| Conclusion                  |       |       |     | Conformity     | Conformity  |

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| Test Item(s)                | Unit  | Limit | MDL | Test Result(s) |                |
|-----------------------------|-------|-------|-----|----------------|----------------|
|                             |       |       |     | 1-8            | 1-10+1-11+1-12 |
| Benzo[a]pyrene(BaP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Benzo[e]pyrene(BeP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Benzo[a]anthracene(BaA)     | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Benzo[b]fluoranthene(BbF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Benzo[j]fluoranthene(BjFA)  | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Benzo[k]fluoranthene(BkF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Chrysene(CHR)               | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1     | 0.1 | N.D.           | N.D.           |
| Conclusion                  |       |       |     | Conformity     | Conformity     |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6+1-7,1-10+1-11+1-12

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

| Items  | CAS No.  | Extender oils or used for the production of tyres or parts of tyres | Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity | Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity |
|--|----------|---|--|---|
| Benzo[a]pyrene(BaP)                            | 50-32-8  | ≤ 1   | ≤ 1  | ≤ 0.5   |
| Benzo[e]pyrene(BeP)                            | 192-97-2 | /   | ≤ 1  | ≤ 0.5   |
| Benzo[a]anthracene(BaA)                        | 56-55-3  | /   | ≤ 1  | ≤ 0.5   |
| Benzo[b]fluoranthene(BbF)                      | 205-99-2 | /   | ≤ 1  | ≤ 0.5   |
| Benzo[j]fluoranthene(BjFA)                     | 205-82-3 | /   | ≤ 1  | ≤ 0.5   |
| Benzo[k]fluoranthene(BkF)                      | 207-08-9 | /   | ≤ 1  | ≤ 0.5   |
| Chrysene(CHR)                                  | 218-01-9 | /   | ≤ 1  | ≤ 0.5   |
| Dibenzo[a,h]anthracene(DBA)                    | 53-70-3  | /   | ≤ 1  | ≤ 0.5   |
| Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA | /        | ≤ 10  | /  | /   |

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**Regulation 1935/2004/EC, Regulation (EU) No 10/2011, Council of Europe Resolution AP (2004)5**
**- Overall Migration**

Test Method: EN 1186-3:2022

| Simulant Used  | Test Condition | Unit               | Limit | MDL | Test result(s)            |                           |                           |
|----------------|----------------|--------------------|-------|-----|---------------------------|---------------------------|---------------------------|
|                |                |                    |       |     | 1-5                       |                           |                           |
|                |                |                    |       |     | 1 <sup>st</sup> migration | 2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| 3% Acetic acid | 70°C, 2h       | mg/dm <sup>2</sup> | 10    | 5   | N.D.                      | N.D.                      | N.D.                      |
| 50% Ethanol    | 70°C, 2h       | mg/dm <sup>2</sup> | 10    | 5   | N.D.                      | N.D.                      | N.D.                      |
| Conclusion     |                |                    |       |     | Conformity                |                           |                           |

| Simulant Used  | Test Condition | Unit               | Limit | MDL | Test result(s)            |  |  |
|----------------|----------------|--------------------|-------|-----|---------------------------|--|--|
|                |                |                    |       |     | 1-8                       |  |  |
|                |                |                    |       |     | 3 <sup>rd</sup> migration |  |  |
| 3% Acetic acid | 70°C, 2h       | mg/dm <sup>2</sup> | 10    | 5   | N.D.                      |  |  |
| 50% Ethanol    | 70°C, 2h       | mg/dm <sup>2</sup> | 10    | 5   | N.D.                      |  |  |
| Conclusion     |                |                    |       |     | Conformity                |  |  |

**Regulation 1935/2004/EC, Regulation (EU) No 10/2011**
**- Specific migration of Primary Aromatic Amine**

Test Method: EUR 24815 EN 2011

| Test Item(s)  | Unit  | Limit | MDL   | Test result(s)            |                           |                           |
|---|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|   |       |       |       | 1-5                       |                           |                           |
|   |       |       |       | 1 <sup>st</sup> migration | 2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| Simulant Used: 3% Acetic acid; Test Condition: 70°C, 2h |       |       |       |                           |                           |                           |
| 4-Aminobiphenyl   | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| Benzidine   | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4-Chloro-o-Toluidine                                    | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 2-Naphthylamine   | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4-amino-2',3-dimethylazobenzene                         | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 5-Nitro-o-toluidine                                     | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4-Chloroaniline   | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4-Methoxy-m-phenylenediamine                            | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4,4'-Diaminodiphenylmethane                             | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 3,3'-Dichlorobenzidine                                  | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 3,3'-Dimethoxybenzidine                                 | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 3,3'-Dimethylbenzidine                                  | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4,4'-Methylenedi-o-toluidine                            | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 6-methoxy-m-toluidine                                   | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4,4'-methylenebis[2-chloroaniline]                      | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4,4'-Oxydianiline                                       | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4,4'-Thiodianiline                                      | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 2-Aminotoluene  | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4-methyl-m-phenylenediamine                             | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 2,4,5-Trimethylaniline                                  | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 2-Methoxyaniline  | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 4-Aminoazobenzene                                       | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| 1,3 phenylenediamine                                    | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |

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| Test Item(s)                           | Unit  | Limit | MDL  | Test result(s)            |                           |                           |
|--|-------|-------|------|---------------------------|---------------------------|---------------------------|
|  |       |       |      | 1-5                       |                           |                           |
|  |       |       |      | 1 <sup>st</sup> migration | 2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| Total of other primary aromatic amines | mg/kg | 0.01  | 0.01 | N.D.                      | N.D.                      | N.D.                      |
| Conclusion                             |       |       |      | Conformity                |                           |                           |

# Regulation 1935/2004/EC, Regulation (EU) No 10/2011

## - Specific migration of Heavy metals

Test Method: EN 13130-1:2004

| Test Item(s)  | Unit  | Limit | MDL   | Test result(s)            |                           |                           |
|---|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|   |       |       |       | 1-5                       |                           |                           |
|   |       |       |       | 1 <sup>st</sup> migration | 2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| Simulant Used: 3% Acetic acid; Test Condition: 70°C, 2h |       |       |       |                           |                           |                           |
| Barium (Ba)   | mg/kg | 1     | 0.1   | N.D.                      | N.D.                      | N.D.                      |
| Cobalt (Co)   | mg/kg | 0.05  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Copper (Cu)   | mg/kg | 5     | 0.25  | N.D.                      | N.D.                      | N.D.                      |
| Iron (Fe)   | mg/kg | 48    | 0.25  | N.D.                      | N.D.                      | N.D.                      |
| Lithium (Li)  | mg/kg | 0.6   | 0.1   | N.D.                      | N.D.                      | N.D.                      |
| Manganese (Mn)  | mg/kg | 0.6   | 0.1   | N.D.                      | N.D.                      | N.D.                      |
| Zinc (Zn)   | mg/kg | 5     | 0.25  | N.D.                      | N.D.                      | N.D.                      |
| Aluminum (Al)   | mg/kg | 1     | 0.1   | N.D.                      | N.D.                      | N.D.                      |
| Europium (Eu)   | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Gadolinium (Gd)   | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Lanthanum (La)  | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Terbium (Tb)  | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Sum(Eu+Gd+La+Tb)  | mg/kg | 0.05  | /     | N.D.                      | N.D.                      | N.D.                      |
| Antimony (Sb)   | mg/kg | 0.04  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Arsenic (As)  | mg/kg | N.D.  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Cadmium (Cd)  | mg/kg | N.D.  | 0.002 | N.D.                      | N.D.                      | N.D.                      |
| Chromium (Cr)   | mg/kg | N.D.  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Lead (Pb)   | mg/kg | N.D.  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Mercury (Hg)  | mg/kg | N.D.  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Nickel (Ni)   | mg/kg | 0.02  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Ammonium (NH <sub>4</sub> <sup>+</sup> )                | mg/kg | /     | 0.10  | N.D.                      | N.D.                      | N.D.                      |
| Calcium (Ca)  | mg/kg | /     | 0.01  | 0.378                     | 0.275                     | 0.223                     |
| Magnesium (Mg)  | mg/kg | /     | 0.01  | 0.027                     | 0.019                     | 0.016                     |
| Potassium (K)   | mg/kg | /     | 0.01  | 0.082                     | 0.054                     | 0.043                     |
| Sodium (Na)   | mg/kg | /     | 0.01  | 0.132                     | 0.108                     | 0.089                     |
| Conclusion  |       |       |       | Conformity                |                           |                           |

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**Regulation 1935/2004/EC, Regulation (EU) No 10/2011 and Regulation (EU) 2024/3190, Council of Europe**

**Resolution AP (2004)5**

**- Bisphenol A (BPA) content**

Test Methods and Equipment: EPA 3550C:2007 & EPA 8321B:2007; LC-MS-MS

| Test Item(s)      | Unit  | Limit       | MDL  | Test Result(s) |
|-------------------|-------|-------------|------|----------------|
|                   |       |             |      | 1-5            |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.01 | N.D.           |
| Conclusion        |       |             |      | Conformity     |

| Test Item(s)      | Unit  | Limit       | MDL  | Test Result(s) |
|-------------------|-------|-------------|------|----------------|
|                   |       |             |      | 1-8            |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.01 | N.D.           |
| Conclusion        |       |             |      | Conformity     |

**DM-4B-COM-003-v01**

**- Peroxides**

Test Methods: European Pharmacopoeia 9.0 Method 2.5.5

| Test Item(s) | Unit | Limit  | MDL | Test Result(s) |
|--------------|------|--------|-----|----------------|
|              |      |        |     | 1-8            |
| Peroxides    | %    | Absent | 0.2 | N.D.           |
| Conclusion   |      |        |     | Conformity     |

**DM-4B-COM-003-v01**

**- Volatile Organic Matter**

Test Methods: DGCCRF 2004-64

Temperature and Time: Bake at 100°C for 1h and then at 200°C for 4h

| Test Item(s)                | Unit | Limit | MDL | Test Result(s) |
|-----------------------------|------|-------|-----|----------------|
|                             |      |       |     | 1-8            |
| Volatile Organic Components | %    | 0.5   | 0.1 | 0.14           |
| Conclusion                  |      |       |     | Conformity     |

**DM-4B-COM-003-v01**

**- Specific Migration of Organotin (measured as Tin)**

Test Methods and Equipment: EN 13130-1:2004; ICP-OES

| Simulant Used  | Test Condition | Unit  | Limit | MDL  | Test result(s) |
|----------------|----------------|-------|-------|------|----------------|
|                |                |       |       |      | 1-8            |
| 3% Acetic acid | 70°C, 2h       | mg/kg | 0.1   | 0.01 | N.D.           |
| Conclusion     |                |       |       |      | Conformity     |

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**Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of**

**Europe Resolution CM/Res(2020)9**

**- Specific migration of Heavy metal**

Test Method: EDQM (2024)

| Item(s)  | Unit  | Limit                                      |                           | MDL   | Test result(s)                             |                           |
|--|-------|--|---------------------------|-------|--|---------------------------|
|  |       |  |                           |       | 1-4  |                           |
|  |       | 1 <sup>st</sup> +2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |       | 1 <sup>st</sup> +2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| Simulant Used: 0.5% Citric acid ; Test Condition: 7°C , 2h |       |  |                           |       |  |                           |
| Barium (Ba)  | mg/kg | 8.4  | 1.2                       | 0.1   | N.D.                                       | N.D.                      |
| Copper (Cu)  | mg/kg | 28   | 4                         | 0.1   | N.D.                                       | N.D.                      |
| Iron (Fe)  | mg/kg | 280  | 40                        | 0.1   | 0.329                                      | N.D.                      |
| Tin (Sn)   | mg/kg | 700  | 100                       | 0.1   | N.D.                                       | N.D.                      |
| Chromium (Cr)  | mg/kg | 7  | 1                         | 0.01  | 0.029                                      | N.D.                      |
| Manganese (Mn)   | mg/kg | 3.85                                       | 0.55                      | 0.1   | N.D.                                       | N.D.                      |
| Zinc (Zn)  | mg/kg | 35   | 5                         | 0.1   | N.D.                                       | N.D.                      |
| Aluminium (Al)   | mg/kg | 35   | 5                         | 0.1   | N.D.                                       | N.D.                      |
| Lithium (Li)   | mg/kg | 0.336                                      | 0.048                     | 0.01  | N.D.                                       | N.D.                      |
| Beryllium (Be)   | mg/kg | 0.07                                       | 0.01                      | 0.005 | N.D.                                       | N.D.                      |
| Vanadium (V)   | mg/kg | 0.07                                       | 0.01                      | 0.005 | N.D.                                       | N.D.                      |
| Nickel (Ni)  | mg/kg | 0.98                                       | 0.14                      | 0.01  | 0.015                                      | N.D.                      |
| Cobalt (Co)  | mg/kg | 0.14                                       | 0.02                      | 0.01  | N.D.                                       | N.D.                      |
| Arsenic (As)   | mg/kg | 0.014                                      | 0.002                     | 0.002 | N.D.                                       | N.D.                      |
| Molybdenum (Mo)  | mg/kg | 0.84                                       | 0.12                      | 0.01  | N.D.                                       | N.D.                      |
| Silver (Ag)  | mg/kg | 0.56                                       | 0.08                      | 0.01  | N.D.                                       | N.D.                      |
| Cadmium (Cd)   | mg/kg | 0.035                                      | 0.005                     | 0.002 | N.D.                                       | N.D.                      |
| Antimony (Sb)  | mg/kg | 0.28                                       | 0.04                      | 0.01  | N.D.                                       | N.D.                      |
| Mercury (Hg)   | mg/kg | 0.021                                      | 0.003                     | 0.002 | N.D.                                       | N.D.                      |
| Thallium (Tl)  | mg/kg | 0.007                                      | 0.001                     | 0.001 | N.D.                                       | N.D.                      |
| Lead (Pb)  | mg/kg | 0.07                                       | 0.01                      | 0.01  | N.D.                                       | N.D.                      |
| Zirconium (Zr)   | mg/kg | 14   | 2                         | 0.01  | N.D.                                       | N.D.                      |
| Magnesium (Mg)   | mg/kg | /  | /                         | 0.01  | N.D.                                       | N.D.                      |
| Titanium (Ti)  | mg/kg | /  | /                         | 0.01  | N.D.                                       | N.D.                      |
| Conclusion   |       |  |                           |       | Conformity                                 | Conformity                |

Note:

Results from all three migration are to be considered for compliance: Result of 3<sup>rd</sup> migration shall not exceed the SRL and Sum of result of 1<sup>st</sup> and 2<sup>nd</sup> migration shall not exceed 7 times of SRL.

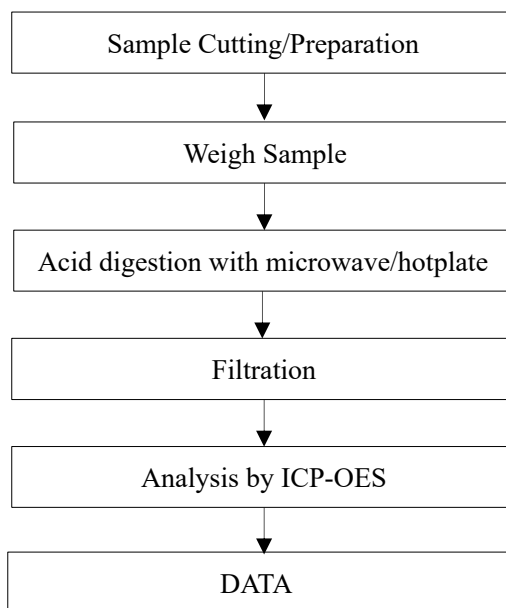
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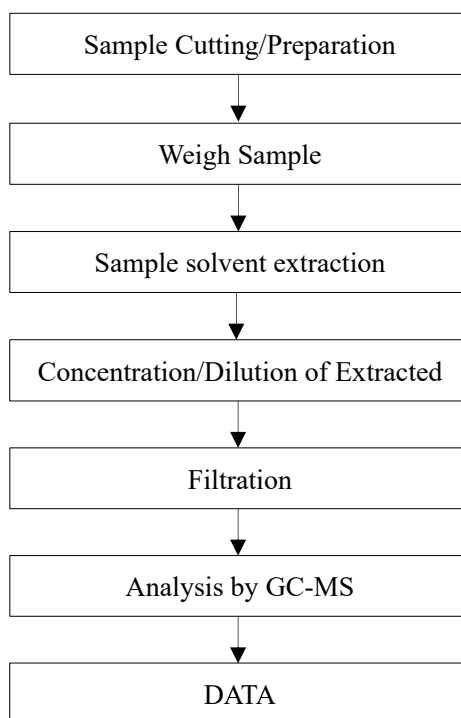
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### Test Flow Chart of Heavy Metal Content



### Test Flow Chart of Phthalates



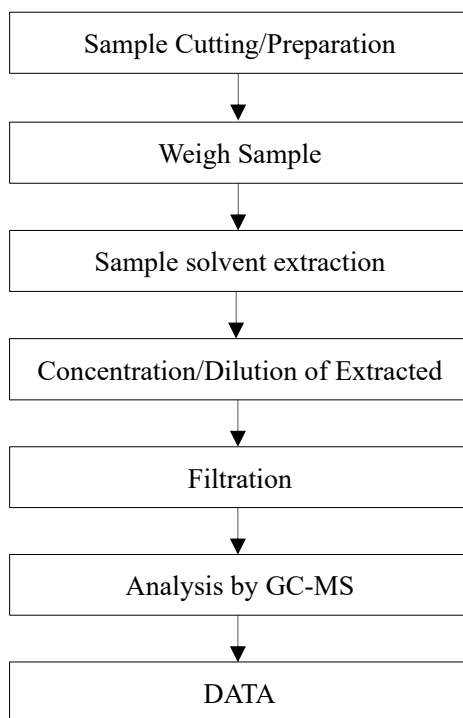
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### Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

\*\*\* End of Report \*\*\*

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