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# Test Report

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Report No. : AGC05443251233-001

**SAMPLE NAME** : Double wall bottle  
**MODEL NAME** : MO2228  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Dec. 29, 2025

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Report No.: AGC05443251233-001

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 : Double wall bottle  
Model : MO2228  
Vendor code : 114276  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Dec. 17, 2025  
Testing Period : Dec. 17, 2025 to Dec. 29, 2025  
Test Requested : Selected test(s) as requested by client.

Approved by: 

Suhongliang

Technical Director

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**Test Requested:**

**Conclusion**

|   |      |
|---|------|
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63<br>- Lead(Pb) Content  | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23<br>-Cadmium(Cd) Content  | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52<br>- Phthalates Content   | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50<br>- Polycyclic-aromatic Hydrocarbons (PAHs) Content   | Pass |
| Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)<br>- Pentachlorophenol (PCP) Content  | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 77<br>- Formaldehyde Release  | Pass |
| Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials<br>of Council of Europe Resolution CM/Res(2020)9<br>- Specific migration of Heavy metal | Pass |
| Regulation 1935/2004/EC, Regulation (EU) No 10/2011, Council of Europe Resolution AP (2004)5<br>- Overall Migration   | Pass |
| Regulation 1935/2004/EC, Regulation (EU) No 10/2011<br>- Specific migration of Primary Aromatic Amine   | Pass |
| Regulation 1935/2004/EC, Regulation (EU) No 10/2011<br>- Specific migration of Heavy metals   | Pass |
| Regulation 1935/2004/EC, Regulation (EU) No 10/2011 and Regulation (EU) 2024/3190<br>- Bisphenol A (BPA) content  | Pass |
| Regulation 1935/2004/EC, Regulation (EU) No 10/2011<br>- Specific migration of Acrylonitrile  | Pass |
| DM-4B-COM-003-v01<br>- Volatile Organic Components (VOC) content  | Pass |
| DM-4B-COM-003-v01<br>- Peroxides  | Pass |
| DM-4B-COM-003-v01<br>- Specific Migration of Organotin (measured as Tin)  | Pass |

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## Report Revise Record

| Report Version | Issued Date   | Valid Version | Notes           |
|----------------|---------------|---------------|-----------------|
| /              | Dec. 29, 2025 | Valid         | Initial release |

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**The photo of the sample**



The photo of AGC05443251233-001 is for use only with the original report.

**Test Point Description**

| Test point | Test point description       |
|------------|------------------------------|
| 1-1        | White coating                |
| 1-2        | Black coating                |
| 1-3        | Metal inner bottle body      |
| 1-4        | Metal outer bottle body      |
| 1-5        | Metal outer cover            |
| 1-6        | Black plastic inner cover    |
| 1-7        | Black plastic twist stopper  |
| 1-8        | Pale yellow plastic button   |
| 1-9        | Pale yellow plastic cylinder |
| 1-10       | Transparent plastic          |
| 1-11       | White silicone ring          |
| 1-12       | Cork base                    |

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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.

**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        |
| 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) |            |              |
|--------------|-------|-------|-----|----------------|------------|--------------|
|              |       |       |     | 1-5            | 1-6+1-7    | 1-8+1-9+1-10 |
| 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) |            |
|--------------|-------|-------|-----|----------------|------------|
|              |       |       |     | 1-11           | 1-12       |
| Lead(Pb)     | mg/kg | 500   | 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+1-2,1-6+1-7,1-8+1-9+1-10

**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        | 1-6+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+1-9+1-10   | 1-11       |
| 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+1-2,1-6+1-7,1-8+1-9+1-10

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**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        | 1-6+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 |

| Test Item(s)   | Unit | Limit | MDL   | Test Result(s) |            |
|--|------|-------|-------|----------------|------------|
|  |      |       |       | 1-8+1-9+1-10   | 1-11       |
| 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+1-2,1-6+1-7,1-8+1-9+1-10

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## 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        | 1-6+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 |

| Test Item(s)                | Unit  | Limit | MDL | Test Result(s) |            |
|-----------------------------|-------|-------|-----|----------------|------------|
|                             |       |       |     | 1-8+1-9+1-10   | 1-11       |
| 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+1-2,1-6+1-7,1-8+1-9+1-10

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## 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  | /  | /   |

**Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)**
**- Pentachlorophenol (PCP) Content**

Test Methods and Equipment: EPA 3550C:2007 &amp; EPA 8270E:2018; GC-MS

| Test Item(s)            | Unit  | Limit | MDL | Test Result(s) |
|-------------------------|-------|-------|-----|----------------|
|                         |       |       |     | 1-12           |
| Pentachlorophenol (PCP) | mg/kg | 5     | 5   | N.D.           |
| Conclusion              |       |       |     | Conformity     |

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 77**
**- Formaldehyde Release**

Test Methods and Equipment: EN 717-1:2004; UV-Vis

| Test Item(s)         | Unit              | Limit | MDL   | Test Result(s) |
|----------------------|-------------------|-------|-------|----------------|
|                      |                   |       |       | 1-12           |
| Formaldehyde Release | mg/m <sup>3</sup> | 0.062 | 0.006 | N.D.(240h)     |
| 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 <sup>st</sup> +2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |       | 1-3  |                           |
|  |       |  |                           |       | 1 <sup>st</sup> +2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| Simulant Used:0.5% Citric acid ; Test Condition: 70°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   | N.D.                                       | N.D.                      |
| Tin (Sn)   | mg/kg | 700  | 100                       | 0.1   | N.D.                                       | N.D.                      |
| Chromium (Cr)  | mg/kg | 7  | 1                         | 0.01  | N.D.                                       | 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   | 0.113                                      | 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  | N.D.                                       | 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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**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)            |                           |                           |
|----------------|----------------|--------------------|-------|-----|---------------------------|---------------------------|---------------------------|
|                |                |                    |       |     | 1-6                       |                           |                           |
|                |                |                    |       |     | 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)            |                           |                           |
|----------------|----------------|--------------------|-------|-----|---------------------------|---------------------------|---------------------------|
|                |                |                    |       |     | 1-9                       |                           |                           |
|                |                |                    |       |     | 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)            |  |  |
|----------------|----------------|--------------------|-------|-----|---------------------------|--|--|
|                |                |                    |       |     | 1-11                      |  |  |
|                |                |                    |       |     | 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                |  |  |

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**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)            |                           |                           |
|---|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|   |       |       |       | 1-6                       |                           |                           |
|   |       |       |       | 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.                      |
| Total of other primary aromatic amines                  | mg/kg | 0.01  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Conclusion  |       |       |       | Conformity                |                           |                           |

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| Test Item(s)  | Unit  | Limit | MDL   | Test result(s)            |                           |                           |
|---|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|   |       |       |       | 1-9                       |                           |                           |
|   |       |       |       | 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.                      |
| Total of other primary aromatic amines                  | mg/kg | 0.01  | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Conclusion  |       |       |       | Conformity                |                           |                           |

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**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)            |                           |                           |
|---|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|   |       |       |       | 1-6                       |                           |                           |
|   |       |       |       | 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  | 0.083                     | 0.028                     | N.D.                      |
| Magnesium (Mg)  | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Potassium (K)   | mg/kg | /     | 0.01  | 0.038                     | N.D.                      | N.D.                      |
| Sodium (Na)   | mg/kg | /     | 0.01  | 0.029                     | N.D.                      | N.D.                      |
| Conclusion  |       |       |       | Conformity                |                           |                           |

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| Test Item(s)  | Unit  | Limit | MDL   | Test result(s)            |                           |                           |
|---|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|   |       |       |       | 1-9                       |                           |                           |
|   |       |       |       | 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  | 0.110                     | N.D.                      | N.D.                      |
| Magnesium (Mg)  | mg/kg | /     | 0.01  | 0.020                     | N.D.                      | N.D.                      |
| Potassium (K)   | mg/kg | /     | 0.01  | 0.053                     | N.D.                      | N.D.                      |
| Sodium (Na)   | mg/kg | /     | 0.01  | 0.039                     | N.D.                      | N.D.                      |
| Conclusion  |       |       |       | Conformity                |                           |                           |

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

**- 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) |
|-------------------|-------|-------------|------|----------------|
|                   |       |             |      | 1-6            |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.01 | N.D.           |
| Conclusion        |       |             |      | Conformity     |

| Test Item(s)      | Unit  | Limit       | MDL  | Test Result(s) |
|-------------------|-------|-------------|------|----------------|
|                   |       |             |      | 1-9            |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.01 | N.D.           |
| Conclusion        |       |             |      | Conformity     |

| Test Item(s)      | Unit  | Limit       | MDL  | Test Result(s) |
|-------------------|-------|-------------|------|----------------|
|                   |       |             |      | 1-11           |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.01 | N.D.           |
| Conclusion        |       |             |      | Conformity     |

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

Test Methods and Equipment: EN 13130-3:2004; GC-NPD

| Simulant Used  | Test Condition | Unit  | Limit  | MDL  | Test result(s)            |                           |                           |
|----------------|----------------|-------|--------|------|---------------------------|---------------------------|---------------------------|
|                |                |       |        |      | 1-9                       |                           |                           |
|                |                |       |        |      | 1 <sup>st</sup> migration | 2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |
| 3% Acetic acid | 70°C, 2h       | mg/kg | Absent | 0.01 | N.D.                      | N.D.                      | N.D.                      |
| Conclusion     |                |       |        |      | Conformity                |                           |                           |

**DM-4B-COM-003-v01**
**- Volatile Organic Components (VOC) content**

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) |
|-----------------------------|------|-------|-----|----------------|
|                             |      |       |     | 1-11           |
| Volatile Organic Components | %    | 0.5   | 0.1 | 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) |
|--------------|------|--------|-----|----------------|
|              |      |        |     | 1-11           |
| Peroxides    | %    | Absent | 0.2 | N.D.           |
| 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) |
|----------------|----------------|-------|-------|------|----------------|
|                |                |       |       |      | 1-11           |
| 3% Acetic acid | 70°C, 2h       | mg/kg | 0.1   | 0.01 | N.D.           |
| Conclusion     |                |       |       |      | Conformity     |

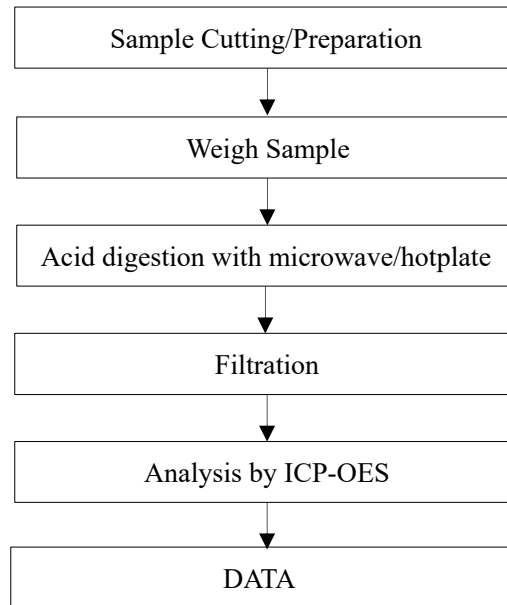
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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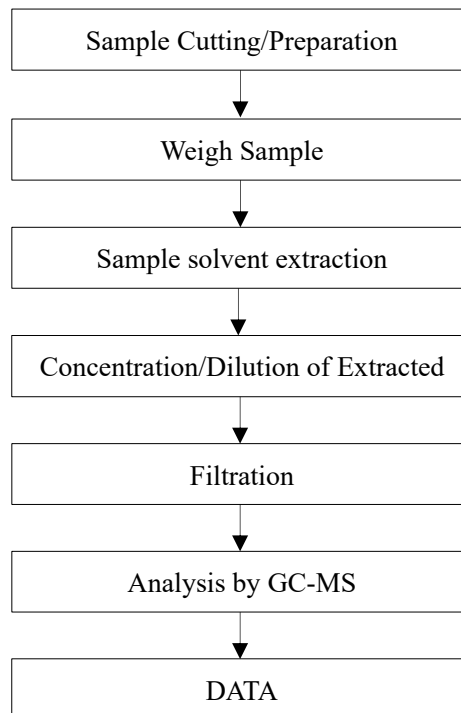
Attestation of Global Compliance(Shenzhen)Std &amp; Tech Co., Ltd

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

### Test Flow Chart of Heavy Metal Content

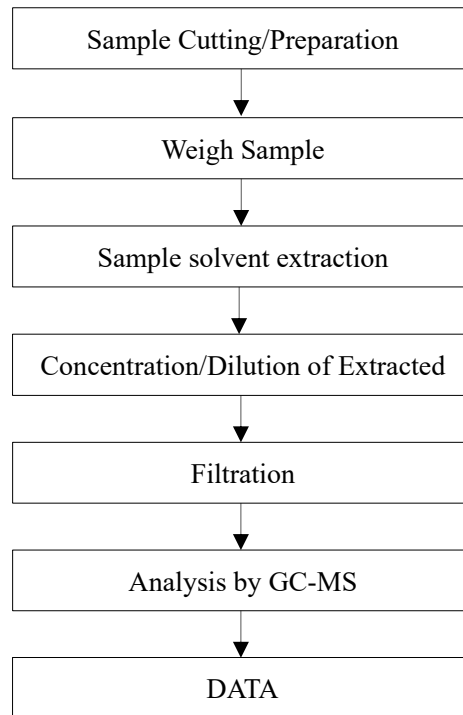


### Test Flow Chart of Phthalates



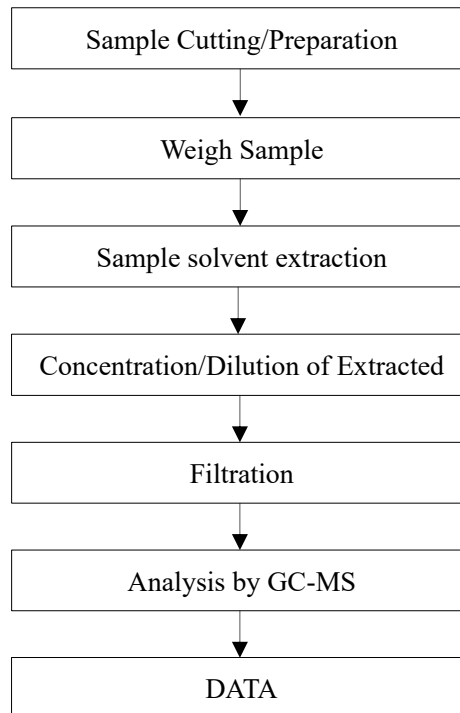
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### Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



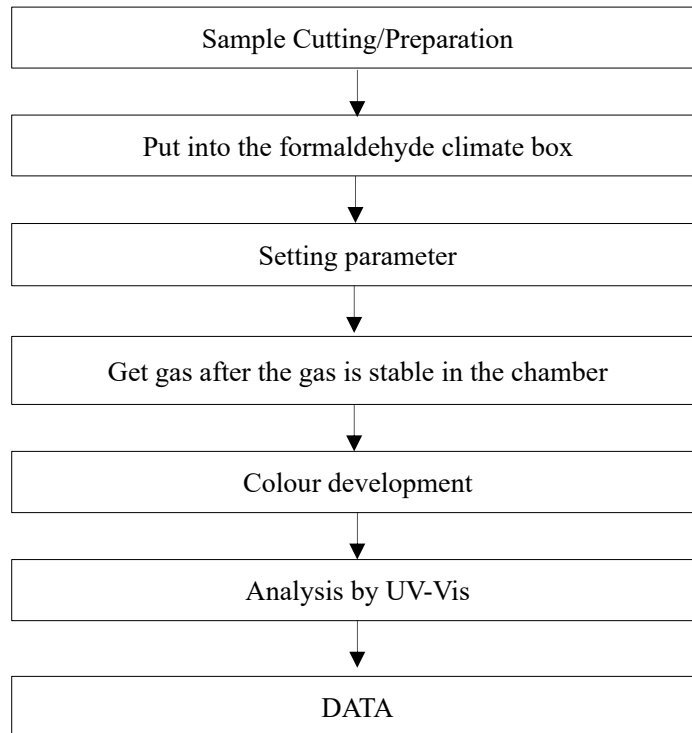
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### Test Flow Chart of Pentachlorophenol (PCP)



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### Test Flow Chart of Formaldehyde Release



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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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 \*\*\*

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by [agc01@agccert.com](mailto:agc01@agccert.com).