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## Test Report

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Report No. : AGC05443260671-001

**SAMPLE NAME** : Double wall bottle  
**MODEL NAME** : MO2716  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Jul. 03, 2026

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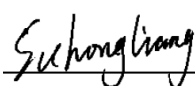


Report No.: AGC05443260671-001

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 : MO2716  
Vendor code : 104901  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample receiving state : Normal  
Sample Received Date : Jun. 26, 2026  
Testing Period : Jun. 26, 2026 to Jul. 03, 2026  
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

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43  
- Aromatic Amines Azodyes (AZO) Content

Pass

- Colour fastness to rubbing

Pass

Regulation 1935/2004/EC, Regulation (EU) No 10/2011  
- 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  
- Bisphenol A (BPA) content

Pass

Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5  
- Overall Migration

Pass

Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 and Regulation (EU) 2024/3190  
- Bisphenol A (BPA) content

Pass

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

Pass

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

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           |
|----------------|---------------|---------------|-----------------|
| /              | Jul. 03, 2026 | Valid         | Initial release |

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### The photo of the sample



The photo of AGC05443260671-001 is for use only with the original report.

### Test Point Description

| Test point | Test point description   |
|------------|--------------------------|
| 1-1        | Blue coating             |
| 1-2        | White coating            |
| 1-3        | Black coating            |
| 1-4        | Metal inner bottle body  |
| 1-5        | Metal outer bottle body  |
| 1-6        | Black plastic bottom cup |
| 1-7        | Black plastic lid        |
| 1-8        | Transparent plastic lid  |
| 1-9        | White silicone ring      |
| 1-10       | Metal clasp              |
| 1-11       | Black woven strap        |
| 1-12       | Blue woven strap         |
| 1-13       | White woven strap        |
| 1-14       | Blue plastic bottom cup  |
| 1-15       | Blue plastic lid         |
| 1-16       | White plastic bottom cup |
| 1-17       | White plastic lid        |

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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.:MO2716、1-3、1-4、1-5、1-6、1-7、1-8、1-9、1-10、1-11                                                                                                                                                                                                                                                                                          |
| Test method: Refer BS EN 12875 -1: 2005                                                                                                                                                                                                                                                                                                          |
| Washing temperature: 60°C                                                                                                                                                                                                                                                                                                                        |
| Number of cycle: 10 cycles                                                                                                                                                                                                                                                                                                                       |
| Number of tested sample: 2 pc(s).                                                                                                                                                                                                                                                                                                                |
| 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        |
| 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) |            |            |
|--------------|-------|-------|-----|----------------|------------|------------|
|              |       |       |     | 1-6+1-7+1-8    | 1-9        | 1-10       |
| Lead(Pb)     | mg/kg | 500   | 10  | N.D.           | N.D.       | 29         |
| Conclusion   |       |       |     | Conformity     | Conformity | Conformity |

| Test Item(s) | Unit  | Limit | MDL | Test Result(s) |            |            |
|--------------|-------|-------|-----|----------------|------------|------------|
|              |       |       |     | 1-11+1-12+1-13 | 1-14+1-15  | 1-16+1-17  |
| Lead(Pb)     | mg/kg | 500   | 10  | N.D.           | N.D.       | N.D.       |
| Conclusion   |       |       |     | Conformity     | Conformity | Conformity |

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points:

1-1+1-2+1-3,1-6+1-7+1-8,1-11+1-12+1-13,1-14+1-15,1-16+1-17

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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    | 1-6+1-7+1-8 | 1-9        |
| Cadmium(Cd)  | mg/kg | 100   | 10  | N.D.           | N.D.        | N.D.       |
| Conclusion   |       |       |     | Conformity     | Conformity  | Conformity |

| Test Item(s) | Unit  | Limit | MDL | Test Result(s) |            |
|--------------|-------|-------|-----|----------------|------------|
|              |       |       |     | 1-14+1-15      | 1-16+1-17  |
| 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+1-3,1-6+1-7+1-8,1-14+1-15,1-16+1-17

**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    | 1-6+1-7+1-8 | 1-9        |
| Diisobutyl phthalate (DIBP)<br>CAS:84-69-5                 | %    | 0.1   | 0.005 | N.D.           | N.D.        | N.D.       |
| Dibutyl phthalate (DBP)<br>CAS:84-74-2                     | %    | 0.1   | 0.005 | N.D.           | N.D.        | N.D.       |
| Butylbenzyl phthalate (BBP)<br>CAS:85-68-7                 | %    | 0.1   | 0.005 | N.D.           | N.D.        | N.D.       |
| Di-(2-ethylhexyl) Phthalate<br>(DEHP)<br>CAS:117-81-7      | %    | 0.1   | 0.005 | N.D.           | N.D.        | N.D.       |
| Di-n-octyl phthalate (DNOP)<br>CAS:117-84-0                | %    | /     | 0.005 | N.D.           | N.D.        | N.D.       |
| Di-isononyl phthalate (DINP)<br>CAS:28553-12-0, 68515-48-0 | %    | /     | 0.005 | N.D.           | N.D.        | N.D.       |
| Di-isodecyl phthalate(DIDP)<br>CAS:26761-40-0, 68515-49-1  | %    | /     | 0.005 | N.D.           | N.D.        | N.D.       |
| Sum of DIBP<br>+DBP+BBP+DEHP                               | %    | 0.1   | /     | N.D.           | N.D.        | N.D.       |
| Sum of DNOP+DINP+DIDP                                      | %    | 0.1   | /     | N.D.           | N.D.        | N.D.       |
| Conclusion                                                 |      |       |       | Conformity     | Conformity  | Conformity |

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| Test Item(s)                                               | Unit | Limit | MDL   | Test Result(s) |            |
|------------------------------------------------------------|------|-------|-------|----------------|------------|
|                                                            |      |       |       | 1-14+1-15      | 1-16+1-17  |
| 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+1-3,1-6+1-7+1-8,1-14+1-15,1-16+1-17

#### 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    | 1-6+1-7+1-8 | 1-9        |
| Benzo[a]pyrene(BaP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Benzo[e]pyrene(BeP)         | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Benzo[a]anthracene(BaA)     | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Benzo[b]fluoranthene(BbF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Benzo[j]fluoranthene(BjFA)  | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Benzo[k]fluoranthene(BkF)   | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Chrysene(CHR)               | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1     | 0.1 | N.D.           | N.D.        | N.D.       |
| Conclusion                  |       |       |     | Conformity     | Conformity  | Conformity |

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| Test Item(s)                | Unit  | Limit | MDL | Test Result(s) |            |
|-----------------------------|-------|-------|-----|----------------|------------|
|                             |       |       |     | 1-14+1-15      | 1-16+1-17  |
| 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+1-3,1-6+1-7+1-8,1-14+1-15,1-16+1-17

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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**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43**
**- Aromatic Amines Azodyes (AZO) Content**

Test Methods and Equipment: EN ISO 14362-1:2017; GC-MS

| Test Item(s)                                       | Unit  | Limit | MDL | Test Result(s) |
|----------------------------------------------------|-------|-------|-----|----------------|
|                                                    |       |       |     | 1-11+1-12      |
| 4-Aminobiphenyl<br>CAS:92-67-1                     | mg/kg | 30    | 5   | N.D.           |
| Benzidine<br>CAS:92-87-5                           | mg/kg | 30    | 5   | N.D.           |
| 4-Chloro-o-toluidine<br>CAS:95-69-2                | mg/kg | 30    | 5   | N.D.           |
| 2-Naphthylamine<br>CAS:91-59-8                     | mg/kg | 30    | 5   | N.D.           |
| o-Aminoazotoluene<br>CAS:97-56-3                   | mg/kg | 30    | 5   | N.D.           |
| 5-Nitro-o-toluidine<br>CAS:99-55-8                 | mg/kg | 30    | 5   | N.D.           |
| p-Chloroaniline<br>CAS:106-47-8                    | mg/kg | 30    | 5   | N.D.           |
| 4-Methoxy-m-phenylenediamine<br>CAS:615-05-4       | mg/kg | 30    | 5   | N.D.           |
| 4,4'-Diaminodiphenylmethane<br>CAS:101-77-9        | mg/kg | 30    | 5   | N.D.           |
| 3,3'-Dichlorobenzidine<br>CAS:91-94-1              | mg/kg | 30    | 5   | N.D.           |
| 3,3'-Dimethoxybenzidine<br>CAS:119-90-4            | mg/kg | 30    | 5   | N.D.           |
| 3,3'-Dimethybenzidine<br>CAS:119-93-7              | mg/kg | 30    | 5   | N.D.           |
| 4,4'-Methylenedi-o-toluidine<br>CAS:838-88-0       | mg/kg | 30    | 5   | N.D.           |
| p-Cresidine<br>CAS:120-71-8                        | mg/kg | 30    | 5   | N.D.           |
| 4,4'-Methylenebis[2-chloroaniline]<br>CAS:101-14-4 | mg/kg | 30    | 5   | N.D.           |
| 4,4'-Oxydianiline<br>CAS:101-80-4                  | mg/kg | 30    | 5   | N.D.           |
| 4,4'-Thiodianiline<br>CAS:139-65-1                 | mg/kg | 30    | 5   | N.D.           |
| 2-Aminotoluene<br>CAS:95-53-4                      | mg/kg | 30    | 5   | N.D.           |
| 2,4-Toluyldiamine<br>CAS:95-80-7                   | mg/kg | 30    | 5   | N.D.           |
| 2,4,5-Trimethylaniline<br>CAS:137-17-7             | mg/kg | 30    | 5   | N.D.           |
| o-Anisidine<br>CAS:90-04-0                         | mg/kg | 30    | 5   | N.D.           |
| 4-Aminoazobenzene<br>CAS:60-09-3                   | mg/kg | 30    | 5   | N.D.           |
| Conclusion                                         |       |       |     | Conformity     |

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Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-11+1-12

Note: 4-aminoazobenzene: The EN ISO 14362-1:2017 or ISO 17234-1:2020 methods will enable further cleavage of 4-aminoazobenzene to aniline and / or 1,4-phenylenediamine. If aniline and / or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

### **- Colour fastness to rubbing**

**Test Method:** ISO 105-X12:2016

**Rubbing finger:** Cylinder

**The time of conditioning as well as the atmospheric conditions during testing:** 20.3 °C, 63 %R.H., 4 hrs

**The percentage of soak of wet rubbing cloth:** 95%~100%

**The long direction of the specimen:** Endwise/ Crossrange

| Test point                   | Test Result                          |             | Conclusion |
|------------------------------|--------------------------------------|-------------|------------|
|                              | Colour fastness to rubbing / (Grade) |             |            |
|                              | Dry rubbing                          | Wet rubbing |            |
| 1-11                         | 4-5                                  | 4-5         | Conformity |
| 1-12                         | 4-5                                  | 4-5         | Conformity |
| Limit (Client's Requirement) | ≥2-3                                 | ≥2-3        | /          |

### **Note:**

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

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**Regulation 1935/2004/EC, Regulation (EU) No 10/2011**
**- Overall Migration**

Test Method: EN 1186-3:2022

| Simulant Used  | Test Condition | Unit               | Limit | MDL | Test result(s)            |                           |                           |
|----------------|----------------|--------------------|-------|-----|---------------------------|---------------------------|---------------------------|
|                |                |                    |       |     | 1-7                       |                           |                           |
|                |                |                    |       |     | 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                |                           |                           |

**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)            |                           |                           |
|---------------------------------------------------------|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|                                                         |       |       |       | 1-7                       |                           |                           |
|                                                         |       |       |       | 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)            |                           |                           |
|---------------------------------------------------------|-------|-------|-------|---------------------------|---------------------------|---------------------------|
|                                                         |       |       |       | 1-7                       |                           |                           |
|                                                         |       |       |       | 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  | N.D.                      | N.D.                      | N.D.                      |
| Magnesium (Mg)                                          | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Potassium (K)                                           | mg/kg | /     | 0.01  | N.D.                      | N.D.                      | N.D.                      |
| Sodium (Na)                                             | mg/kg | /     | 0.01  | N.D.                      | 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 &amp; EPA 8321B:2007; LC-MS-MS

| Test Item(s)      | Unit  | Limit       | MDL   | Test Result(s) |
|-------------------|-------|-------------|-------|----------------|
|                   |       |             |       | 1-7            |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.001 | N.D.           |
| Conclusion        |       |             |       | Conformity     |

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**Regulation 1935/2004/EC, 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)            |
|----------------|----------------|--------------------|-------|-----|---------------------------|
|                |                |                    |       |     | 1-9                       |
|                |                |                    |       |     | 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, Council of Europe Resolution AP (2004)5 and Regulation (EU) 2024/3190**
**- Bisphenol A (BPA) content**

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

| Test Item(s)      | Unit  | Limit       | MDL   | Test Result(s) |
|-------------------|-------|-------------|-------|----------------|
|                   |       |             |       | 1-9            |
| Bisphenol A (BPA) | mg/kg | Prohibition | 0.001 | N.D.           |
| Conclusion        |       |             |       | Conformity     |

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

Test Methods: DGCCRF2004-64

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) |
|-----------------------------|------|-------|-----|----------------|
|                             |      |       |     | 1-9            |
| Volatile Organic Components | %    | 0.5   | 0.1 | 0.16           |
| 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) |
|--------------|------|--------|-----|----------------|
|              |      |        |     | 1-9            |
| 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) |
|----------------|----------------|-------|-------|------|----------------|
|                |                |       |       |      | 1-9            |
| 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 <sup>st</sup> +2 <sup>nd</sup> migration | 3 <sup>rd</sup> migration |       | 1-4                                        |                           |
|                                                              |       |                                            |                           |       | 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   | 0.500                                      | 0.113                     |
| 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   | 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  | 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.

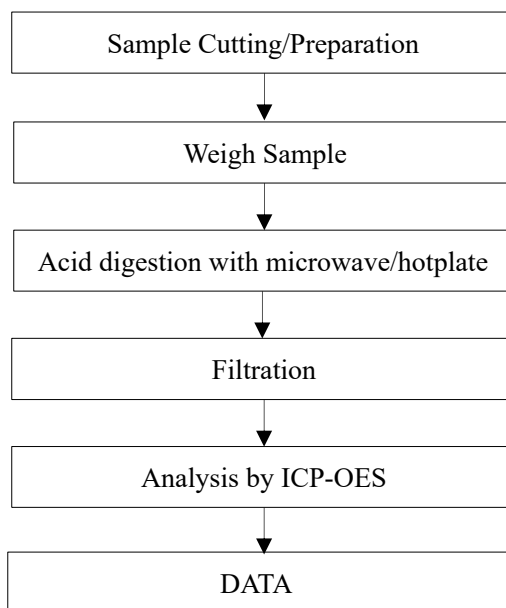
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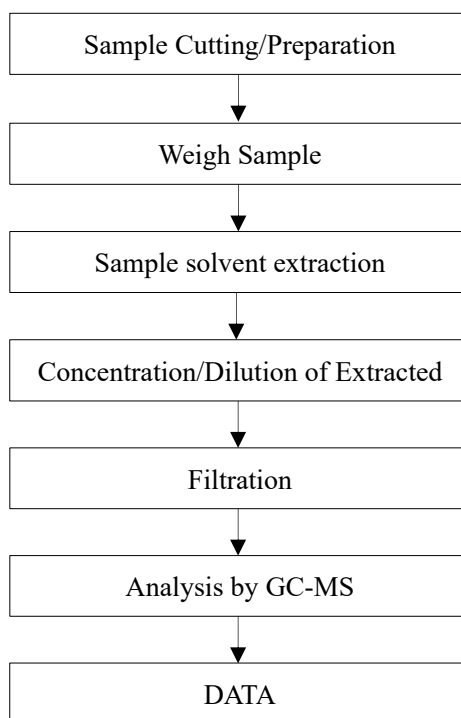
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### Test Flow Chart of Heavy Metal Content



### Test Flow Chart of Phthalates



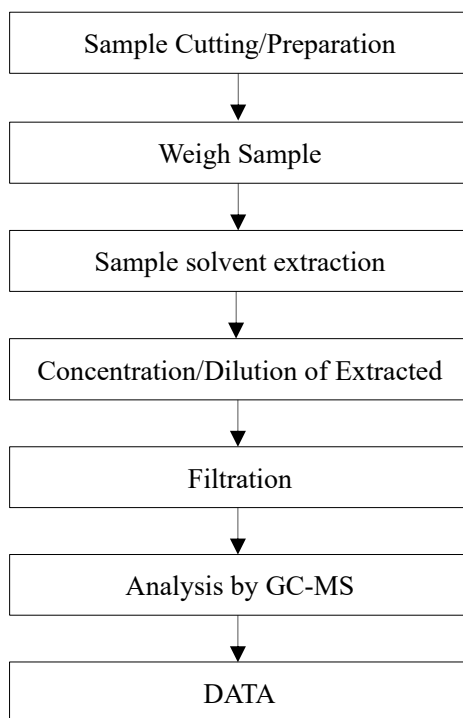
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Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

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



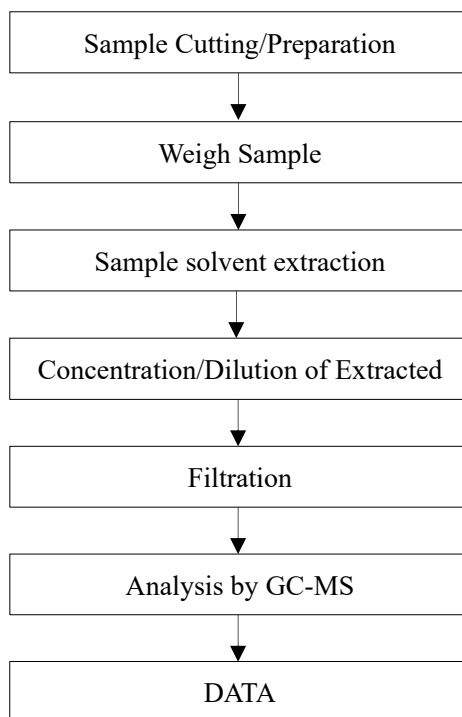
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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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### Test Flow Chart of AZO



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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).