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## Test Report

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Report No. : AGC05443241044-001S2

**SAMPLE NAME** : Tumbler in PP  
**MODEL NAME** : MO6981  
**APPLICANT** : MID OCEAN BRANDS B.V.  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : Nov. 25, 2024

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Report No.: AGC05443241044-001S2

Applicant : MID OCEAN BRANDS B.V.  
Address : 7/F, Kings Tower, 111 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 : Tumbler in PP  
Model : MO6981  
Vendor code : 114276  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample Received Date : Oct. 24, 2024  
Testing Period : Oct. 24, 2024 to Nov. 25, 2024  
Test Requested : Selected test(s) as requested by client.

Approved by: *Leon*

Suhongliang, Leon

Technical Director

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

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

Pass

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

Pass

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

Pass

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

Pass

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

Pass

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

Pass

Reference to Regulation 1935/2004/EC, Regulation(EU) No.10/2011& LFGB §64 BVL B 82.02  
Part 8  
-Pentachlorophenol (PCP) content

Pass

Regulation EU (No) 10/2011& (EU)2018/213 and Council of Europe Resolution AP (2004) 2 and  
Council of Europe Resolution AP(2004)5:

- Overall migration
- Bisphenol A(BPA) content
- Specific migration of Bisphenol A(BPA)
- Specific migration of Heavy metals
- Specific migration of Primary aromatic amines
- Specific migration of Formaldehyde

Pass

Pass

Pass

Pass

Pass

Pass

DM-4B-COM-003-v01 for:

- Volatile Organic Matter
- Peroxide value
- Specific Migration of Organotin (measured as Tin)

Pass

Pass

Pass

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Nov. 04, 2024	Invalid	Initial release
S1	Nov. 05, 2024	Invalid	Modification of Test point description
S2	Nov. 25, 2024	Valid	Resubmit sample for testing

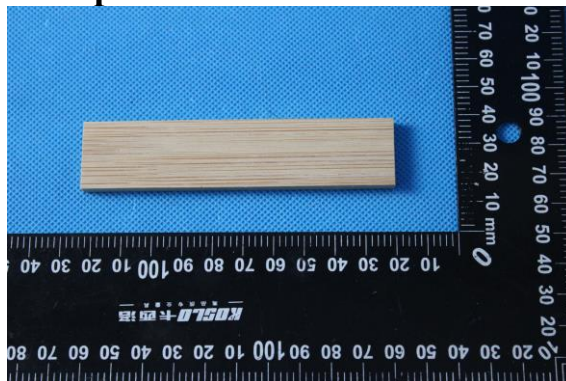
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### The photo of the sample



The photo of AGC05443241044-001S2 is for use only with the original report.

### Test Point Description

Test point	Test point description	
1-1	Bamboo lid	/
1-2	White silicone sealing	/
1-3	Black plastic inner mug(PP)	/
1-4	Cork grip	Same as 1-6 of the report No. AGC05443241041-001

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### Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%  
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
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)	
				1-4	
Lead(Pb)	mg/kg	500	10	N.D.	
Conclusion				Conformity	

Remark: The samples of the following test points were resubmitted on November 20, 2024: 1-1

### 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)	
				1-2	1-3
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Conclusion				Conformity	Conformity

### 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)	
				1-2	1-3
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.

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Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-2	1-3
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.
Sum of DBP+DEHP+BBP+DEHP	%	0.1	/	N.D.	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.
Conclusion				Conformity	Conformity

#### 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)	
				1-2	1-3
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

#### 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

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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[e]pyrene(BeP)	192-97-2	/	$\leq 1$	$\leq 0.5$
Benzo[a]anthracene(BaA)	56-55-3	/	$\leq 1$	$\leq 0.5$
Benzo[b]fluoranthene(BbF)	205-99-2	/	$\leq 1$	$\leq 0.5$
Benzo[j]fluoranthene(BjFA)	205-82-3	/	$\leq 1$	$\leq 0.5$
Benzo[k]fluoranthene(BkF)	207-08-9	/	$\leq 1$	$\leq 0.5$
Chrysene(CHR)	218-01-9	/	$\leq 1$	$\leq 0.5$
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	$\leq 1$	$\leq 0.5$
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	$\leq 10$	/	/

#### **Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)**

##### **- Pentachlorophenol (PCP) Content**

Test Methods and Equipment: EPA 3540C:1996 & EPA 8270E:2018; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-4
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)
				1-4
Formaldehyde Release	mg/m <sup>3</sup>	0.062	0.006	N.D.(240h)
Conclusion				Conformity

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**-Pentachlorophenol (PCP) content**

<b>Test Item</b>	Pentachlorophenol (PCP)
<b>Limit (mg/kg)</b>	0.15
<b>MDL(mg/kg)</b>	0.05
<b>Test Method/ Instrument</b>	ENISO15320-2011/ GC-MS

<b>Test point</b>	<b>Test Result (mg/kg)</b>	<b>Conclusion</b>
	Pentachlorophenol (PCP)	
1-1	N.D.	<b>Conformity</b>

Remark:The samples of the following test points were resubmitted on November 20, 2024:1-1

**- Overall Migration**

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

Test point	Test result		Conclusion
	Overall migration/ (mg/dm²)		
	3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	
1-2	N.D.	N.D.	Conformity
Limit	10	10	/
MDL	5	5	/

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### - Bisphenol A(BPA) content

Test Item	Bisphenol A (BPA)
Limit(Client's Requirement) (mg/kg)	Absent
MDL(mg/kg)	0.1
Test Method/ Instrument	EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS

Test point	Test Result (mg/kg)	Conclusion
	Bisphenol A (BPA)	
1-2	N.D.	Conformity

Test Item	Bisphenol A (BPA)
Limit(mg/kg)	Absent
MDL (mg/kg)	0.1
Test Method/ Instrument	EPA 3540C:1996& EPA 8321B:2007/ LC-MS-MS

Test point	Test Result (mg/kg)	Conclusion
	Bisphenol A (BPA)	
1-3	N.D.	Conformity

### - Specific migration of Bisphenol A(BPA)

Test point	Test Result	Conclusion
	Specific migration of Bisphenol A(BPA)/ (mg/kg)	
	3% Acetic acid,70°C,2h	
1-2	N.D.	Conformity
Limit (Client's Requirement)	0.05	/
MDL	0.02	/

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# -Specific migration of Primary aromatic amines

Test Item(s)	MDL (mg/kg)	Limit (mg/kg)
4-Aminobiphenyl	0.002	N.D.
Benzidine	0.002	N.D.
4-Chloro-o-Toluidine	0.002	N.D.
2-Naphthylamine	0.002	N.D.
4-amino-2',3-dimethylazobenzene	0.002	N.D.
5-Nitro-o-toluidine	0.002	N.D.
4-Chloroaniline	0.002	N.D.
4-Methoxy-m-phenylenediamine	0.002	N.D.
4,4'-Diaminodiphenylmethane	0.002	N.D.
3,3'-Dichlorobenzidine	0.002	N.D.
3,3'-Dimethoxybenzidine	0.002	N.D.
3,3'-Dimethylbenzidine	0.002	N.D.
4,4'-Methylenedi-o-toluidine	0.002	N.D.
6-methoxy-m-toluidine	0.002	N.D.
4,4'-methylenebis[2-chloroaniline]	0.002	N.D.
4,4'-Oxydianiline	0.002	N.D.
4,4'-Thiodianiline	0.002	N.D.
2-Aminotoluene	0.002	N.D.
4-methyl-m-phenylenediamine	0.002	N.D.
2,4,5-Trimethylaniline	0.002	N.D.
2-Methoxyaniline	0.002	N.D.
4-Aminoazobenzene	0.002	N.D.
1,3 phenylenediamine	0.002	N.D.
Total of other primary aromatic amines	0.01	0.01

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Test Item(s)	Test Result (mg/kg)		
	1-3		
	1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration
	3% Acetic acid 70°C, 2h		
4-Aminobiphenyl	N.D.	N.D.	N.D.
Benzidine	N.D.	N.D.	N.D.
4-Chloro-o-Toluidine	N.D.	N.D.	N.D.
2-Naphthylamine	N.D.	N.D.	N.D.
4-amino-2',3-dimethylazobenzene	N.D.	N.D.	N.D.
5-Nitro-o-toluidine	N.D.	N.D.	N.D.
4-Chloroaniline	N.D.	N.D.	N.D.
4-Methoxy-m-phenylenediamine	N.D.	N.D.	N.D.
4,4'-Diaminodiphenylmethane	N.D.	N.D.	N.D.
3,3'-Dichlorobenzidine	N.D.	N.D.	N.D.
3,3'-Dimethoxybenzidine	N.D.	N.D.	N.D.
3,3'-Dimethybenzidine	N.D.	N.D.	N.D.
4,4'-Methylenedi-o-toluidine	N.D.	N.D.	N.D.
6-methoxy-m-toluidine	N.D.	N.D.	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.	N.D.	N.D.
4,4'-Oxydianiline	N.D.	N.D.	N.D.
4,4'-Thiodianiline	N.D.	N.D.	N.D.
2-Aminotoluene	N.D.	N.D.	N.D.
4-methyl-m-phenylenediamine	N.D.	N.D.	N.D.
2,4,5-Trimethylaniline	N.D.	N.D.	N.D.
2-Methoxyaniline	N.D.	N.D.	N.D.
4-Aminoazobenzene	N.D.	N.D.	N.D.
1,3 phenylenediamine	N.D.	N.D.	N.D.
Total of other primary aromatic amines	N.D.	N.D.	N.D.
Conclusion	Conformity		

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## -Specific migration of Heavy metals

Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
			1-3			
			1 <sup>st</sup> migration	2 <sup>nd</sup> migration	3 <sup>rd</sup> migration	
Barium (Ba)	3% Acetic acid/ 70°C, 2h/ ICP-OES/ IC	0.1	N.D.	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li)		0.1	N.D.	N.D.	N.D.	0.6
Manganese (Mn)		0.1	N.D.	N.D.	N.D.	0.6
Zinc (Zn)		0.25	N.D.	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	N.D.	1
Europium (Eu)		0.01	N.D.	N.D.	N.D.	/
Gadolinium (Gd)		0.01	N.D.	N.D.	N.D.	/
Lanthanum (La)		0.01	N.D.	N.D.	N.D.	/
Terbium (Tb)		0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)		0.01	N.D.	N.D.	N.D.	0.04
Arsenic (As)		0.01	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		0.002	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)		0.01	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		0.01	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		0.01	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)		0.01	N.D.	N.D.	N.D.	0.02
Conclusion		/	Conformity			/
Ammonium (NH <sub>4</sub> <sup>+</sup> )		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	0.180	N.D.	N.D.	/
Magnesium (Mg)		0.01	0.017	N.D.	N.D.	/
Potassium (K)		0.01	0.014	N.D.	N.D.	/
Sodium (Na)		0.01	0.027	N.D.	N.D.	/

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### Specific migration of Formaldehyde

Test point	Test Result	Conclusion
	Specific migration of Formaldehyde/ (mg/kg)	
	3% Acetic acid, 70°C,2h	
1-1	7.5	Conformity
Limit	15	/
MDL	5	/

Remark:The samples of the following test points were resubmitted on November 20, 2024:1-1

### - Volatile Organic Matter

Unit: %

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-2	
Volatile Organic Matter	200°C, 4h	0.1	0.10	0.5
Conclusion		/	Conformity	/

### - Peroxide value

Unit: %

Test Item	MDL	Result(s)	Limit
		1-2	
Peroxide value	0.2	N.D.	Absent
Conclusion	/	Conformity	/

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

Test point	Test Result	Conclusion
	Specific Migration of Organotin (measured as Tin)/ (mg/kg)	
	3% Acetic acid, 70°C,2h	
1-2	N.D.	Conformity
Limit	0.1	/
MDL	0.01	/

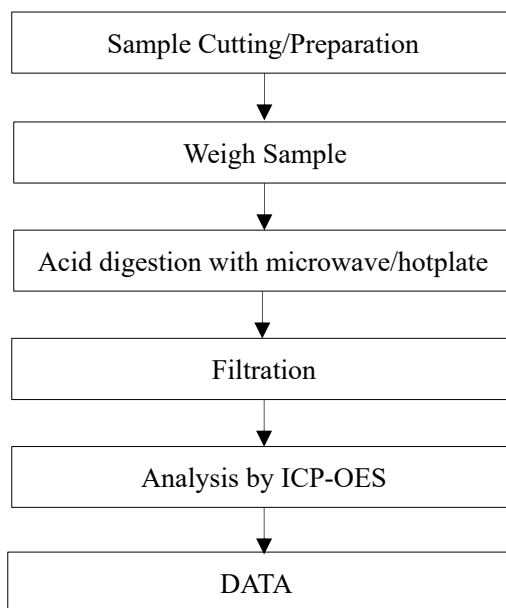
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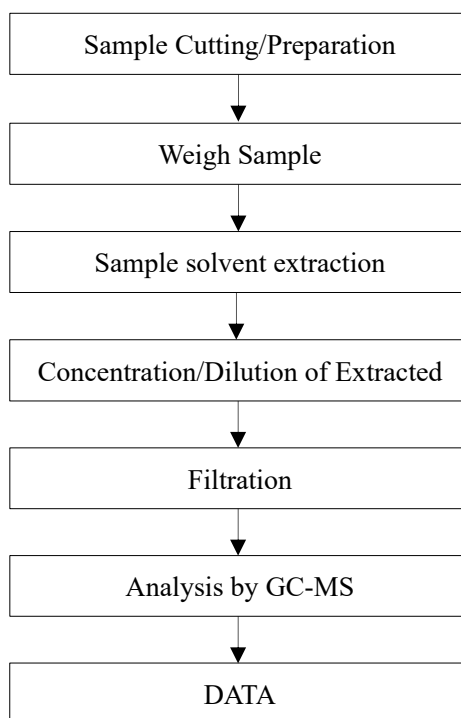
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### Test Flow Chart of Heavy Metal Content



### Test Flow Chart of Phthalates



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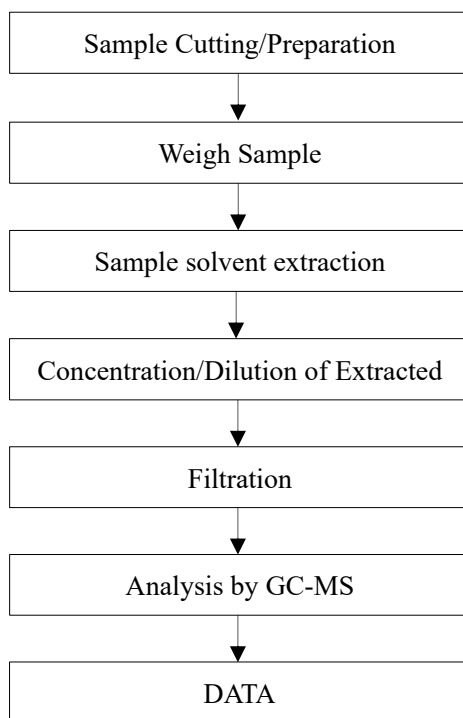
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### Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)

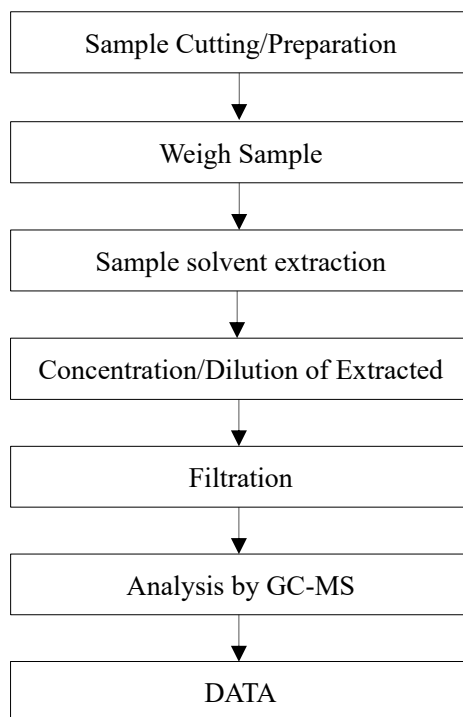


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**Test Flow Chart of Pentachlorophenol (PCP)**

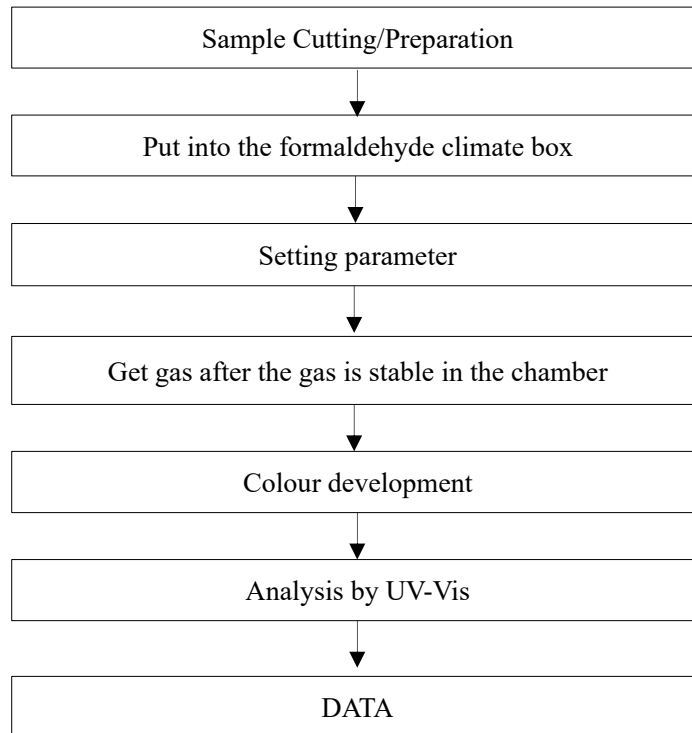
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### Test Flow Chart of Formaldehyde Release



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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 \*\*\*

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