
Test Report

Report No. : AGC05443250657-001

SAMPLE NAME : Tritan bottle bamboo top
MODEL NAME : MO9850
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Jul. 14, 2025

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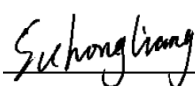


Report No.: AGC05443250657-001

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 : Tritan bottle bamboo top
Model : MO9850
Vendor code : 115253
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal
Sample Received Date : Jul. 01, 2025
Testing Period : Jul. 01, 2025 to Jul. 14, 2025
Test Requested : Selected test(s) as requested by client.

Approved by: 

Suhongliang

Technical Director

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Test Requested:
Conclusion

Mechanical dishwashing safe test	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63 - Lead(Pb) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23 -Cadmium(Cd) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52 - Phthalates Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 - Polycyclic-aromatic Hydrocarbons (PAHs) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 77 - Formaldehyde Release	Pass
Regulation (EU) 2019/1021 on persistent organic pollutants (POPs) - Pentachlorophenol (PCP) Content	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. 14, 2025	Valid	Initial release

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The photo of the sample



The photo of AGC05443250657-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Transparent plastic bottle body
1-2	Metal bottom cover
1-3	Metal lid
1-4	Metal handle
1-5	Round bamboo top
1-6	White silicone ring

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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.

Mechanical dishwashing safe test

Test Result of mechanical dishwashing safe test:
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.: MO9850 1-1、1-2、1-3、1-4、1-5、1-6 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: No visible change of color, gloss and clouding was found on the tested samples after wash. No visible deposit or iridescent layer was found on the tested samples after wash. 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
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	1-5	1-6
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

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	1-6
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Conclusion				Conformity	Conformity

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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	1-6
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.
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 DIBP +DBP+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%

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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	1-6
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
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 77

- Formaldehyde Release

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-5
Formaldehyde Release	mg/m ³	0.062	0.006	N.D. (240h)
Conclusion				Conformity

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

- Pentachlorophenol (PCP) Content

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

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

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)		
					1-1		
					1 st migration	2 nd migration	3 rd migration
3% Acetic acid	70°C, 2h	mg/dm ²	10	5	N.D.	N.D.	N.D.
50% Ethanol	70°C, 2h	mg/dm ²	10	5	N.D.	N.D.	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)		
				1-1		
				1 st migration	2 nd migration	3 rd 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)		
				1-1		
				1 st migration	2 nd migration	3 rd 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 ₄ ⁺)	mg/kg	/	0.10	N.D.	N.D.	N.D.
Calcium (Ca)	mg/kg	/	0.01	0.020	0.045	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.
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Regulation 1935/2004/EC, Regulation (EU) No 10/2011 and Regulation (EU) 2024/3190
- Bisphenol A (BPA) content

Test Methods and Equipment: EPA 3540C:1996 & EPA 8321B:2007; LC-MS-MS

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

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)
					1-6
					3 rd migration
3% Acetic acid	70°C, 2h	mg/dm ²	10	5	N.D.
50% Ethanol	70°C, 2h	mg/dm ²	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 3540C:1996 & 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

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

Test Methods: LFGB BfR Part II section XV, May 2003 and LFGB section 35 B80.30 1(EG)

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)
				1-6
Volatile Organic Components	%	0.5	0.1	0.33
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)
				1-6
Peroxides	%	Absent	0.2	N.D.
Conclusion				Conformity

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- 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)
					1-6
3% Acetic acid	70°C, 2h	mg/kg	0.1	0.01	N.D.
Conclusion					Conformity

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)	
					1-3	
		1 st +2 nd migration	3 rd migration		1 st +2 nd migration	3 rd migration
Simulant Used: 0.5% Citric acid ; Test Condition: 70°C , 2h						
Barium (Ba)	mg/kg	8.4	1.2	0.1	0.117	N.D.
Copper (Cu)	mg/kg	28	4	0.1	N.D.	N.D.
Iron (Fe)	mg/kg	280	40	0.1	2.970	0.235
Tin (Sn)	mg/kg	700	100	0.1	N.D.	N.D.
Chromium (Cr)	mg/kg	7	1	0.01	0.085	0.021
Manganese (Mn)	mg/kg	3.85	0.55	0.1	N.D.	N.D.
Zinc (Zn)	mg/kg	35	5	0.1	N.D.	N.D.
Aluminium (Al)	mg/kg	35	5	0.1	N.D.	N.D.
Lithium (Li)	mg/kg	0.336	0.048	0.01	N.D.	N.D.
Beryllium (Be)	mg/kg	0.07	0.01	0.005	N.D.	N.D.
Vanadium (V)	mg/kg	0.07	0.01	0.005	N.D.	N.D.
Nickel (Ni)	mg/kg	0.98	0.14	0.01	0.114	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 3rd migration shall not exceed the SRL and Sum of result of 1st and 2nd migration shall not exceed 7 times of SRL.

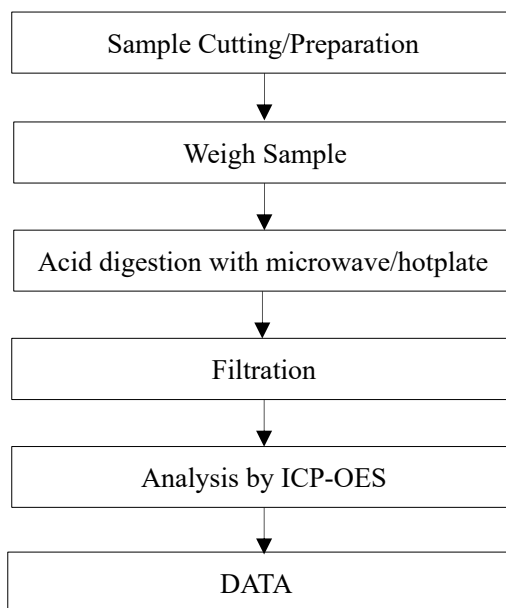
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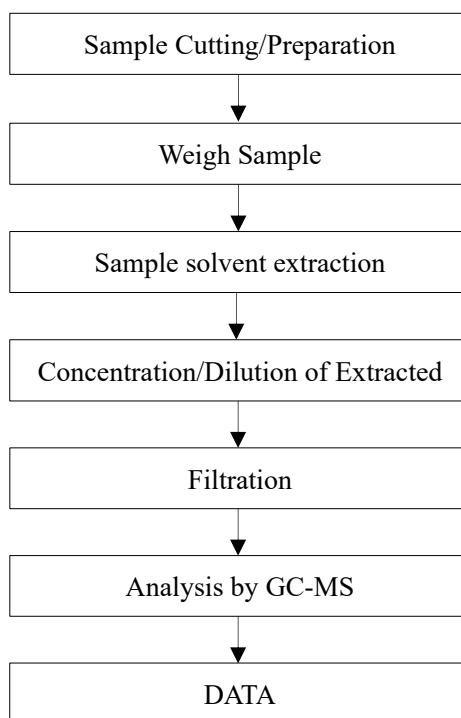
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Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



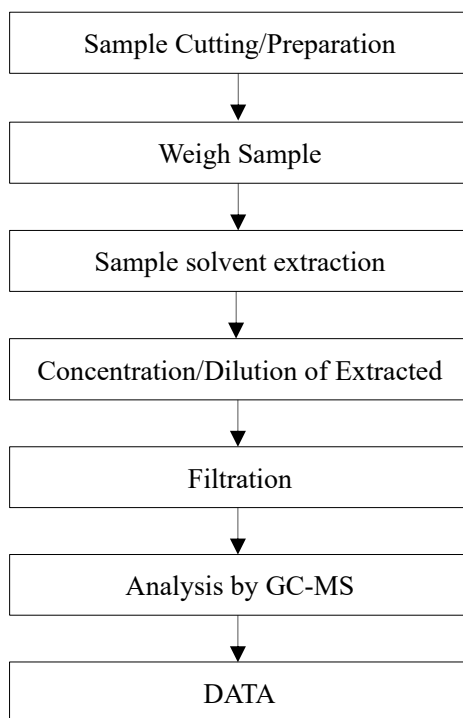
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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



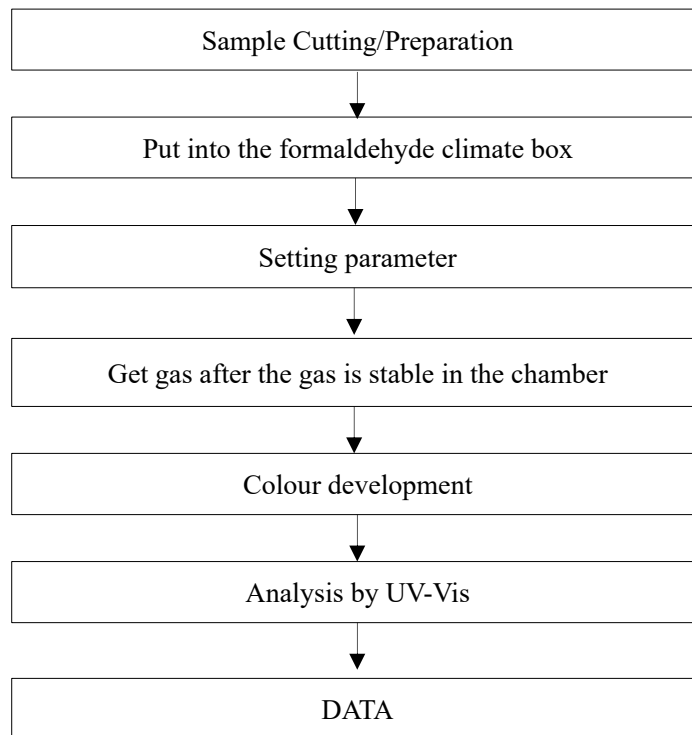
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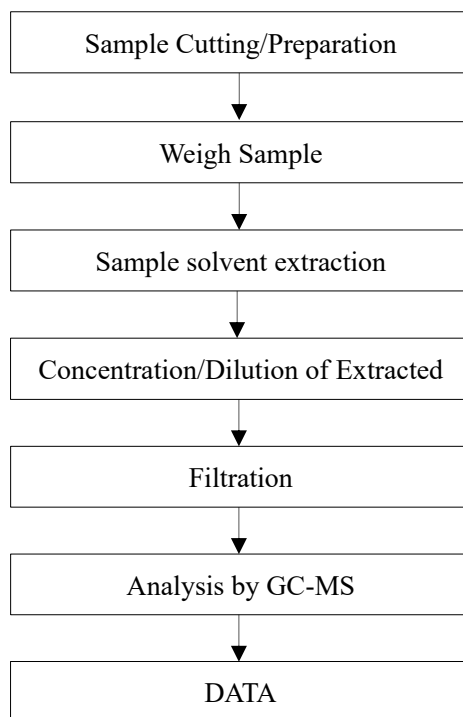
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Test Flow Chart of Formaldehyde Release



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Test Flow Chart of Pentachlorophenol (PCP)



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

*** End of Report ***

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