
Test Report

Report No. : AGC05443251206-001

SAMPLE NAME : Foldable water bottle
MODEL NAME : MO2962
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Dec. 10, 2025

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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 : Foldable water bottle
Model : MO2962
Vendor code : 106613
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Dec. 03, 2025
Testing Period : Dec. 03, 2025 to Dec. 10, 2025
Test Requested : Selected test(s) as requested by client.

Approved by: 

Suhongliang

Technical Director

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Test Requested:
Conclusion

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

Pass

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

Pass

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

Pass

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

Pass

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

Pass

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

Pass

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

Pass

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

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Dec. 10, 2025	Valid	Initial release

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The photo of the sample



The photo of AGC05443251206-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Royal blue TPU body
1-2	Green TPU body
1-3	Black TPU body
1-4	White silicone nozzle
1-5	White plastic upper cover
1-6	White plastic ring
1-7	Blue plastic lid
1-8	Blue cross plastic inside lid
1-9	Blue plastic linked to body
1-10	Green plastic lid
1-11	Green cross plastic inside lid
1-12	Green plastic linked to body
1-13	Black plastic lid
1-14	Black cross plastic inside lid
1-15	Black plastic linked to body

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Test Results:

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

N/A= Not Applicable

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

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

- Lead(Pb) Content

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+1-3	1-4	1-5+1-6
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)		
				1-7+1-8+1-9	1-10+1-11+1-12	1-13+1-14+1-15
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+1-3,1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15

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	1-4	1-5+1-6
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)		
				1-7+1-8+1-9	1-10+1-11+1-12	1-13+1-14+1-15
Cadmium(Cd)	mg/kg	100	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+1-3,1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15

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

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+1-3	1-4	1-5+1-6
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.
Sum of DIBP +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

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-7+1-8+1-9	1-10+1-11+1-12	1-13+1-14+1-15
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.
Sum of DIBP +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

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15

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Limit requirements of Phthalates

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

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

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+1-3	1-4	1-5+1-6
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

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-7+1-8+1-9	1-10+1-11+1-12	1-13+1-14+1-15
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

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6,1-7+1-8+1-9,1-10+1-11+1-12,1-13+1-14+1-15

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

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

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

Test Method: EN 1186-3:2022

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)		
					1-3		
					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		

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)		
					1-13		
					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		

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)		
					1-4		
					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		

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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)		
				1-13		
				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)		
				1-13		
				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	0.536	0.378	0.254
Magnesium (Mg)	mg/kg	/	0.01	0.069	0.048	0.033
Potassium (K)	mg/kg	/	0.01	0.061	0.040	0.027
Sodium (Na)	mg/kg	/	0.01	0.090	0.062	0.042
Conclusion				Conformity		

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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 3550C:2007 & EPA 8321B:2007; LC-MS-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-3
Bisphenol A (BPA)	mg/kg	Prohibition	0.01	N.D.
Conclusion				Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-4
Bisphenol A (BPA)	mg/kg	Prohibition	0.01	N.D.
Conclusion				Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-13
Bisphenol A (BPA)	mg/kg	Prohibition	0.01	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)
				1-4
Volatile Organic Components	%	0.5	0.1	N.D.
Conclusion				Conformity

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

Test Methods: European Pharmacopoeia 9.0 Method 2.5.5

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-4
Peroxides	%	Absent	0.2	N.D.
Conclusion				Conformity

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

Test Method: EN 13130-1: 2004

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)
					1-4
3% Acetic acid	70°C, 2h	mg/kg	0.1	0.01	N.D.
Conclusion					Conformity

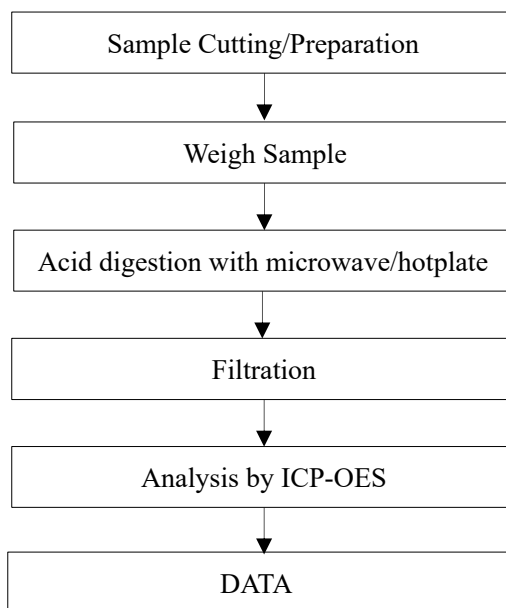
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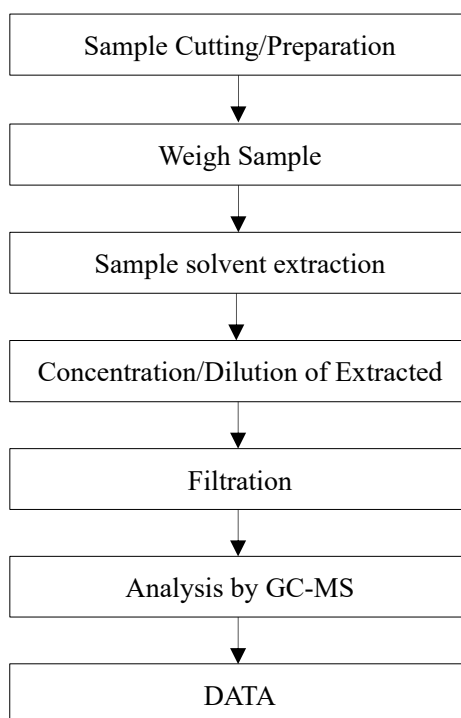
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Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



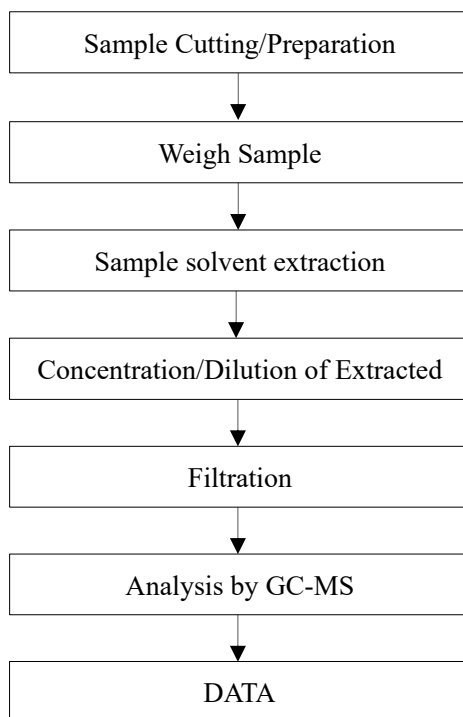
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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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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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