
Test Report

Report No. : AGC05443240633-001

SAMPLE NAME : Double wall jar
MODEL NAME : MO6478
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Aug. 22, 2024

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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 : Double wall jar
Model : MO6478
Vendor code : 104438
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal
Sample Received Date : Jun. 26, 2024
Testing Period : Jun. 26, 2024 to Aug. 22, 2024
Test Requested : Selected test(s) as requested by client.

Approved by: 
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

Mechanical dishwashing safe test

Pass

Regulation 1935/2004/EC, Regulation(EU) No 10/2011 and its amendment Regulation (EU) 2020/1245 and Regulation (EU) 2018/213, Council of Europe Resolution AP (2004)5

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

Pass

Pass

Pass

Pass

Pass

DM-4B-COM-003-v01

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

Pass

Pass

Pass

Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9
- Specific migration of Heavy metal

Pass

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Aug. 22, 2024	Valid	Initial release

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The photo of the sample



The photo of AGC05443240633-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Black plastic inner cover
1-1+1-2	Black plastic inner cover+ Black plastic button
1-3+1-4	Grey silicone ring+ Transparent silicone ring (Small)
1-3	Grey silicone ring
1-5	Metal inner jar
1-6	Metal outer cup cover

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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+1-4
Lead(Pb)	mg/kg	500	10	N.D.	N.D.
Conclusion				Conformity	Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-5	1-6
Lead(Pb)	mg/kg	500	10	N.D.	N.D.
Conclusion				Conformity	Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2,1-3+1-4

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3+1-4

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
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+1-4

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3+1-4

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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
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

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2,1-3+1-4

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3+1-4

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+1-2	1-3+1-4
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+1-4

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3+1-4

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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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.: MO6478	
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.	

-Overall migration

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

Test point	Test result			Conclusion
	Overall migration/ (mg/kg)			
	3% Acetic acid, 70°C,2h	50% Ethanol, 70°C,2h	Rectified Olive Oil, 70°C,2h	
1-3	N.D.	N.D.	N.D.	Conformity
Limit	60	60	60	/
MDL	5	5	5	/

Remark: The samples of the following test points were resubmitted on August 07, 2024: 1-3

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-Bisphenol A(BPA) content

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)	
1-1	N.D.	Conformity

Test Item	Bisphenol A (BPA)
Client's 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

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3

-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	
1-3	N.D.	Conformity
Client's limit	0.05	/
MDL	0.02	/

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3

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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'-Dimethybenzidine	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)		
	1-1		
	3% Acetic acid, 70°C, 2h		
	1 st migration	2 nd migration	3 rd migration
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'-Dimethylbenzidine	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)
			1-1			
			1 st migration	2 nd migration	3 rd 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	0.136	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 ₄ ⁺)		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	0.154	0.218	N.D.	/
Magnesium (Mg)		0.01	N.D.	N.D.	N.D.	/
Potassium (K)		0.01	N.D.	N.D.	N.D.	/
Sodium (Na)		0.01	N.D.	N.D.	N.D.	/

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Unit: %

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-3	
Volatile Organic Matter	200°C, 4h	0.1	N.D.	0.5
Conclusion		/	Conformity	/

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3

- Peroxide value

Unit: %

Test Item	MDL	Result(s)	Limit
		1-3	
Peroxide value	0.2	N.D.	Absent
Conclusion	/	Conformity	/

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3

- 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	
1-3	N.D.	Conformity
Limit	0.1	/
MDL	0.01	/

Remark: The samples of the following test points were resubmitted on August 07, 2024:1-3

- Specific migration of Heavy metal

Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
			1-5	
			1 st + 2 nd extractives	
Barium (Ba)	0.5% Citric acid 70°C, 2h, ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)		0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum(Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/
Magnesium (Mg)		0.01	0.027	/
Titanium (Ti)		0.01	N.D.	/

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Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)	Limit (mg/kg)
			1-5	
			3 rd extractives	
Barium (Ba)	0.5% Citric acid 70°C, 2h, ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminium (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum(Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	Conformity	/
Magnesium (Mg)		0.01	0.017	/
Titanium (Ti)		0.01	N.D.	/

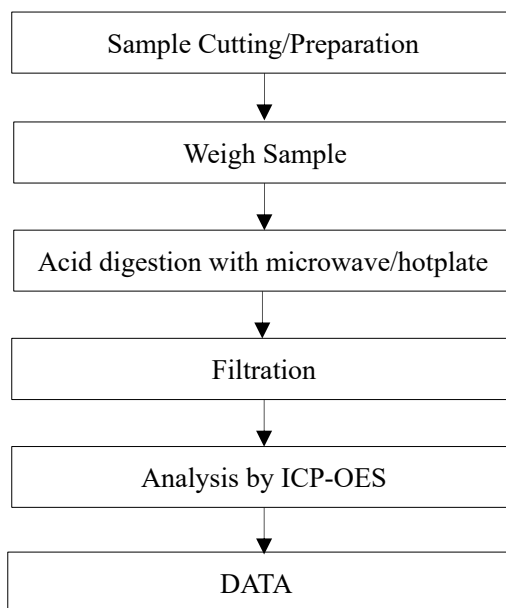
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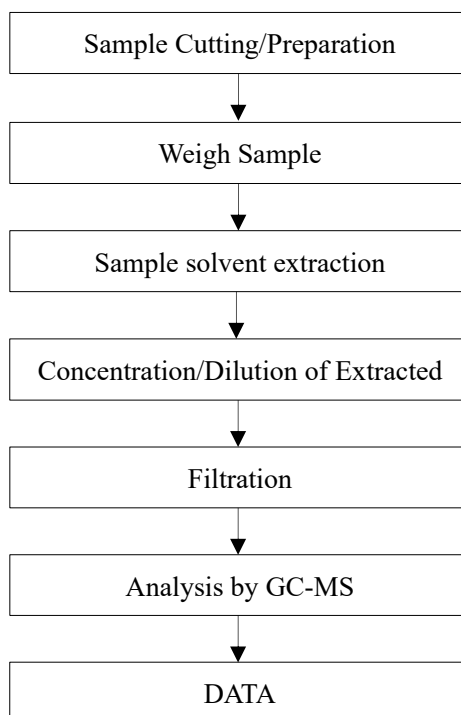
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Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



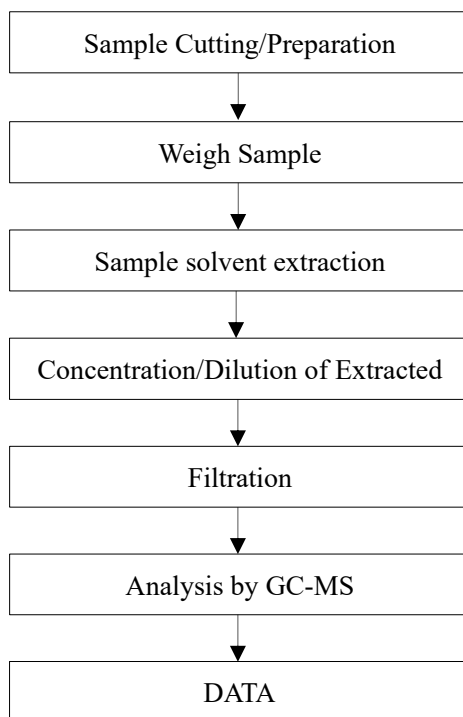
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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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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.
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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