
Test Report

Report No. : AGC05443250534-001S1

SAMPLE NAME : A5 RPET notebook with pen
MODEL NAME : MO2687
APPLICANT : MID OCEAN BRANDS B.V.
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Jul. 21, 2025

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Report No.: AGC05443250534-001S1

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 : A5 RPET notebook with pen
Model : MO2687
Vendor code : 119706
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : May 22, 2025
Testing Period : May 22, 2025 to Jun. 17, 2025
Test Requested : Selected test(s) as requested by client.

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

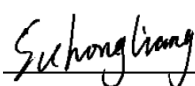
Pass

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

Pass

- Colour fastness to rubbing

Pass

Approved by: 

Suhongliang

Technical Director

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Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Jun. 18, 2025	Invalid	Initial release
S1	Jul. 21, 2025	Valid	Modification of Test Point Description and photo

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The photo of the sample



The photo of AGC05443250534-001S1 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Dark grayish-green cloth (notebook)
1-2	Black cloth (notebook)
1-3	Blue cloth (notebook)
1-4	Cover cardboard(notebook)
1-6	Black title paper(notebook)
1-7	Lined paper(notebook)
1-8	Dark grayish-green ribbon(notebook)
1-9	Black ribbon(notebook)
1-10	Blue ribbon(notebook)
1-11	Dark grayish-green elastic band(notebook)
1-12	Black elastic band(notebook)
1-13	Blue elastic band(notebook)

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Test point	Test point description
1-14	Black plastic(notebook)
1-15	Silver plastic pen tip(pen)
1-16	Silver plastic pen tail(pen)
1-17	Black coating(pen)
1-18	White LOGO(notebook)
1-19	White plastic pen cap (pen)
1-20	White plastic pen barrel(pen)
1-21	White plastic pen core
1-22	Black lead(pen)
1-23	Blue ink(pen)

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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)		
				1-6	1-7	1-8+1-9+1-10
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)		
				1-11+1-12+1-13	1-14+1-15+1-16	1-17+1-18
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)		
				1-19+1-20+1-21	1-22	1-23
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+1-3,1-8+1-9+1-10,1-11+1-12+1-13,1-14+1-15+1-16,1-17+1-18,1-19+1-20+1-21

Remark:The samples of the following test points were resubmitted on June 16, 2025:1-1+1-2+1-3

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	1-14+1-15+1-16
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Conclusion				Conformity	Conformity

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Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-17+1-18	1-19+1-20+1-21
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+1-3,1-14+1-15+1-16,1-17+1-18,1-19+1-20+1-21

Remark:The samples of the following test points were resubmitted on June 16, 2025:1-1+1-2+1-3

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	1-14+1-15+1-16
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

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-17+1-18	1-19+1-20+1-21
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.

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Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-17+1-18	1-19+1-20+1-21
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+1-3,1-14+1-15+1-16,1-17+1-18,1-19+1-20+1-21

Remark:The samples of the following test points were resubmitted on June 16, 2025:1-1+1-2+1-3

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)		
				1-14+1-15+1-16	1-17+1-18	1-19+1-20+1-21
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: 1-14+1-15+1-16,1-17+1-18,1-19+1-20+1-21

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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	/	/

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)
				1-1+1-2+1-3
4-Aminobiphenyl CAS:92-67-1	mg/kg	30	5	N.D.
Benzidine CAS:92-87-5	mg/kg	30	5	N.D.
4-Chloro-o-toluidine CAS:95-69-2	mg/kg	30	5	N.D.
2-Naphthylamine CAS:91-59-8	mg/kg	30	5	N.D.
o-Aminoazotoluene CAS:97-56-3	mg/kg	30	5	N.D.
5-Nitro-o-toluidine CAS:99-55-8	mg/kg	30	5	N.D.
p-Chloroaniline CAS:106-47-8	mg/kg	30	5	N.D.
4-Methoxy-m-phenylenediamine CAS:615-05-4	mg/kg	30	5	N.D.

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Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-1+1-2+1-3
4,4'-Diaminodiphenylmethane CAS:101-77-9	mg/kg	30	5	N.D.
3,3'-Dichlorobenzidine CAS:91-94-1	mg/kg	30	5	N.D.
3,3'-Dimethoxybenzidine CAS:119-90-4	mg/kg	30	5	N.D.
3,3'-Dimethylbenzidine CAS:119-93-7	mg/kg	30	5	N.D.
4,4'-Methylenedi-o-toluidine CAS:838-88-0	mg/kg	30	5	N.D.
p-Cresidine CAS:120-71-8	mg/kg	30	5	N.D.
4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4	mg/kg	30	5	N.D.
4,4'-Oxydianiline CAS:101-80-4	mg/kg	30	5	N.D.
4,4'-Thiodianiline CAS:139-65-1	mg/kg	30	5	N.D.
2-Aminotoluene CAS:95-53-4	mg/kg	30	5	N.D.
2,4-Toluylenediamine CAS:95-80-7	mg/kg	30	5	N.D.
2,4,5-Trimethylaniline CAS:137-17-7	mg/kg	30	5	N.D.
o-Anisidine CAS:90-04-0	mg/kg	30	5	N.D.
4-Aminoazobenzene CAS:60-09-3	mg/kg	30	5	N.D.
Conclusion				Conformity

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-8+1-9+1-10	1-11+1-12+1-13
4-Aminobiphenyl CAS:92-67-1	mg/kg	30	5	N.D.	N.D.
Benzidine CAS:92-87-5	mg/kg	30	5	N.D.	N.D.
4-Chloro-o-toluidine CAS:95-69-2	mg/kg	30	5	N.D.	N.D.
2-Naphthylamine CAS:91-59-8	mg/kg	30	5	N.D.	N.D.
o-Aminoazotoluene CAS:97-56-3	mg/kg	30	5	N.D.	N.D.
5-Nitro-o-toluidine CAS:99-55-8	mg/kg	30	5	N.D.	N.D.
p-Chloroaniline CAS:106-47-8	mg/kg	30	5	N.D.	N.D.
4-Methoxy-m-phenylenediamine CAS:615-05-4	mg/kg	30	5	N.D.	N.D.

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Test Item(s)	Unit	Limit	MDL	Test Result(s)	
				1-8+1-9+1-10	1-11+1-12+1-13
4,4'-Diaminodiphenylmethane CAS:101-77-9	mg/kg	30	5	N.D.	N.D.
3,3'-Dichlorobenzidine CAS:91-94-1	mg/kg	30	5	N.D.	N.D.
3,3'-Dimethoxybenzidine CAS:119-90-4	mg/kg	30	5	N.D.	N.D.
3,3'-Dimethylbenzidine CAS:119-93-7	mg/kg	30	5	N.D.	N.D.
4,4'-Methylenedi-o-toluidine CAS:838-88-0	mg/kg	30	5	N.D.	N.D.
p-Cresidine CAS:120-71-8	mg/kg	30	5	N.D.	N.D.
4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4	mg/kg	30	5	N.D.	N.D.
4,4'-Oxydianiline CAS:101-80-4	mg/kg	30	5	N.D.	N.D.
4,4'-Thiodianiline CAS:139-65-1	mg/kg	30	5	N.D.	N.D.
2-Aminotoluene CAS:95-53-4	mg/kg	30	5	N.D.	N.D.
2,4-Toluyldiamine CAS:95-80-7	mg/kg	30	5	N.D.	N.D.
2,4,5-Trimethylaniline CAS:137-17-7	mg/kg	30	5	N.D.	N.D.
o-Anisidine CAS:90-04-0	mg/kg	30	5	N.D.	N.D.
4-Aminoazobenzene CAS:60-09-3	mg/kg	30	5	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+1-3,1-8+1-9+1-10,1-11+1-12+1-13

Remark:The samples of the following test points were resubmitted on June 16, 2025:1-1+1-2+1-3

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.

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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: 21.3 °C, 64 %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	
1-1	4-5	4-5	Conformity
1-2	4-5	4-5	Conformity
1-3	4-5	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

Remark: The samples of the following test points were resubmitted on June 16, 2025: 1-1, 1-2, 1-3

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.

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: 19.8 °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	
1-8	4-5	4-5	Conformity
1-9	4	4	Conformity
1-10	4	4-5	Conformity
1-11	4-5	4-5	Conformity
1-12	4-5	4-5	Conformity
1-13	4-5	4-5	Conformity

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Test point	Test Result		Conclusion
	Colour fastness to rubbing / (Grade)		
	Dry rubbing	Wet rubbing	
Limit (Client's Requirement)	≥2-3	≥2-3	/

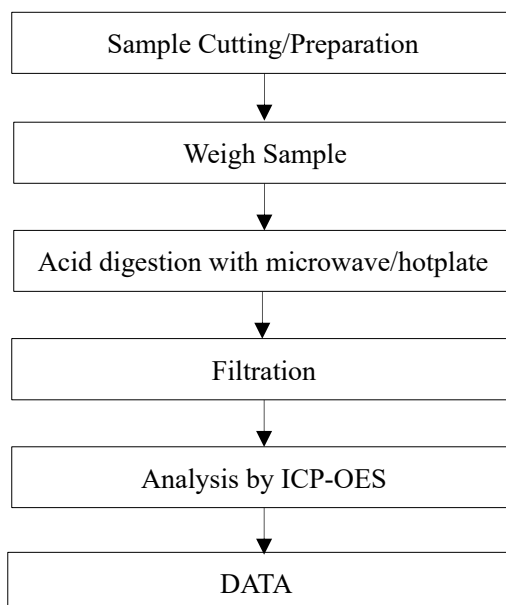
Note:

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.

Test Flow Chart of Heavy Metal Content


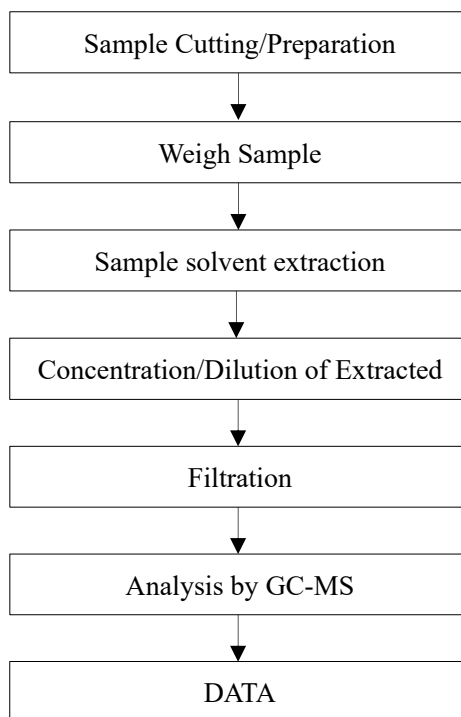
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Test Flow Chart of Phthalates



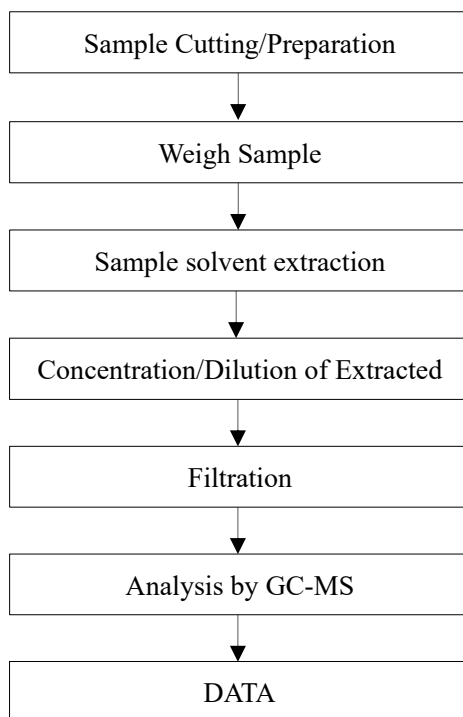
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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



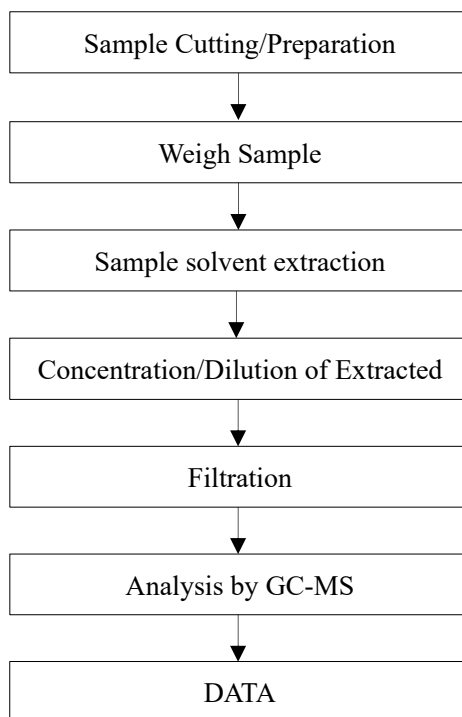
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Test Flow Chart of AZO



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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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