

檢測報告
Test Report報告編號 A2240673752101003E
Report No. A2240673752101003E第 1 頁 共 17 頁
Page 1 of 17報告抬頭公司名稱 杜益精材股份有限公司
Company Name DOIT TECHNICAL CO., LIMITED
shown on Report
地 址 248台灣新北市五股區五工路149號4樓
Address 4F., NO. 149, WUGONG RD., WUGU DIST., NEW TAIPEI CITY 248, R.O.C.

以下測試之樣品及樣品資訊由申請者提供並確認

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

樣品名稱 DuPont SE 4450 Thermally Conductive Adhesive
Sample Name DuPont SE 4450 Thermally Conductive Adhesive
樣品批號 H12205K060
Lot No. H12205K060
樣品接收日期 2024.10.31
Sample Received Date Oct. 31 2024
樣品檢測日期 2024.10.31-2024.11.06
Testing Period Oct. 31, 2024 to Nov. 6, 2024

檢測要求 根據客戶要求，對所提交樣品中的鉛(Pb)，鎘(Cd)，汞(Hg)，六價鉻(Cr(VI))，多溴聯苯(PBBs)，多溴二苯醚(PBDEs)，鄰苯二甲酸酯，氟(F)，氯(Cl)，溴(Br)，碘(I)，鄰苯二甲酸酯，銻(Sb)，鉍(Be)，多氯萘(PCNs)，多氯三聯苯(PCTs)，多氯聯苯(PCBs)，有機錫，六溴環十二烷(HBCDD)，聚氯乙烯(PVC)，短鏈氯化石蠟(SCCPs)，四溴雙酚A(TBBP-A)，中鏈氯化石蠟(MCCPs)，全氟辛酸(PFOA)及其鹽，全氟辛烷磺酸(PFOS)及其鹽和相關物質進行測試。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates, Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Phthalates, Antimony (Sb), Beryllium (Be), Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Polychlorinated Biphenyls (PCBs), Organotin compounds, Hexabromocyclododecane (HBCDD), Polyvinyl Chloride (PVC), Short Chain Chlorinated Paraffins (SCCPs), Middle Chain Chlorinated Paraffins (MCCPs), Tetrabromobisphenol A (TBBP-A), Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctanesulfonic acid (PFOS) and its salts & related substances in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。
Test Method/Test Result(s) Please refer to the following page(s).

馮智聰

馮智聰

實驗室經理 Laboratory Manager

日期
Date

2024.11.06

No. R556667201

台灣華測檢測技術有限公司檢測中心

Testing Center, Centre Testing International (Taiwan) Co., Ltd.

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結論 Conclusion

測試樣品

依據標準/指令

結果

Tested Sample

According to standard/directive

Result

提交樣品

歐盟RoHS指令2011/65/EU及其修訂指令(EU) 2015/863 RoHS Directive
2011/65/EU with amendment (EU)
2015/863

符合 PASS

Submitted Sample

符合表示檢測結果滿足歐盟RoHS指令2011/65/EU及其修訂指令(EU) 2015/863要求的限值。
PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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檢測依據 Test Method

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
鉛 Lead (Pb)	IEC 62321-5:2013	ICP-OES
鎘 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六價鉻 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017	UV-Vis
多溴聯苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
鄰苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS
氟 Fluorine (F)	參考EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine (Cl)	參考EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	參考EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	參考EN 14582:2016 Refer to EN 14582:2016	IC
鄰苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS
銻 Antimony(Sb)	參考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
鈹 Beryllium(Be)	參考US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES

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測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
多氯化萘 Polychlorinated Naphthalenes (PCNs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
多氯三聯苯 Polychlorinated terphenyls (PCTs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
多氯聯苯 Polychlorinated Biphenyls(PCBs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS
有機錫 Organotin compounds	參考 US EPA 3550C:2007 & ISO 17353:2004 Refer to US EPA 3550C:2007 & ISO 17353:2004	GC-MS
六溴環十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS
聚氯乙烯 Polyvinyl Chloride (PVC)	參考JY/T 001-1996 Refer to JY/T 001-1996	FT-IR
短鏈氯化石蠟 Short Chain Chlorinated Paraffins (SCCPs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS(NCI)
四溴雙酚A Tetrabromobisphenol A (TBBP-A)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS(NCI)
中鏈氯化石蠟 Middle Chain Chlorinated Paraffins (MCCPs)	參考US EPA 3550C:2007 & US EPA 8270E:2018 Refer to US EPA 3550C:2007 & US EPA 8270E:2018	GC-MS(NCI)
全氟辛酸Perfluorooctanoic acid (PFOA) and its salts	參考CEN/TS 15968:2010 Refer to CEN/TS 15968:2010	LC-MS-MS
全氟辛烷磺酸Perfluorooctanesulfonic acid (PFOS) and its salts & related substances	參考CEN/TS 15968:2010 Refer to CEN/TS 15968:2010	LC-MS-MS

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檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果Result	方法檢出限 MDL	限值 Limit
	003		
鉛 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
鎘 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六價鉻Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg
測試項目 Tested Item(s)	結果Result	方法檢出限 MDL	限值 Limit
	003		
多溴聯苯 Polybrominated Biphenyls (PBBs)			
一溴聯苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴聯苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴聯苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴聯苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴聯苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴聯苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴聯苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴聯苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴聯苯 Decabromobiphenyl	N.D.	5 mg/kg	
測試項目 Tested Item(s)	結果Result	方法檢出限 MDL	限值 Limit
	003		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	

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測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL	限值 Limit
	003		
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)			
鄰苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
鄰苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL	
	003		
氟 Fluorine (F)	N.D.	50 mg/kg	
氯 Chlorine (Cl)	N.D.	50 mg/kg	
溴 Bromine (Br)	N.D.	50 mg/kg	
碘 Iodine (I)	N.D.	50 mg/kg	

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檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
鄰苯二甲酸二(2-甲氧基)乙酯 Bis(2-methoxyethyl) phthalate (DMEP) CAS#:117-82-8	N.D.	50 mg/kg
鄰苯二甲酸二己酯 Di-n-hexyl phthalate (DNHP/DHEXP) CAS#:84-75-3	N.D.	50 mg/kg
鄰苯二甲酸二異癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
鄰苯二甲酸二異壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
鄰苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg
鄰苯二甲酸烷基酯(C6-8支型結構,C7富集) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) CAS#:71888-89-6	N.D.	50 mg/kg
鄰苯二甲酸烷基酯(C7-11支型和線性結構) 1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP) CAS#:68515-42-4	N.D.	50 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
銻 Antimony (Sb)	N.D.	2 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
鈹 Beryllium (Be)	N.D.	2 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
多氯化萘 Polychlorinated Naphthalenes (PCNs)	N.D.	5 mg/kg

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檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
多氯三聯苯 Polychlorinated Triphenyls (PCTs)	N.D.	0.5 mg/kg
多氯聯苯 Polychlorinated Biphenyls(PCBs)		
一氯聯苯 Monochlorobiphenyl	N.D.	0.5 mg/kg
二氯聯苯 Dichlorobiphenyl	N.D.	0.5 mg/kg
三氯聯苯 Trichlorobiphenyl	N.D.	0.5 mg/kg
四氯聯苯 Tetrachlorobiphenyl	N.D.	0.5 mg/kg
五氯聯苯 Pentachlorobiphenyl	N.D.	0.5 mg/kg
六氯聯苯 Hexachlorobiphenyl	N.D.	0.5 mg/kg
七氯聯苯 Heptachlorobiphenyl	N.D.	0.5 mg/kg
八氯聯苯 Octachlorobiphenyl	N.D.	0.5 mg/kg
九氯聯苯 Nonachlorobiphenyl	N.D.	0.5 mg/kg
十氯聯苯 Decachlorobiphenyl	N.D.	0.5 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
有機錫 Organotin compounds		
二丁基錫 Dibutyltin (DBT)	N.D.	0.03 mg/kg
二辛基錫 Dioctyltin (DOT)	N.D.	0.03 mg/kg
三丁基錫 Tributyltin (TBT)	N.D.	0.03 mg/kg
三苯基錫 Triphenyltin (TPHT)	N.D.	0.03 mg/kg
三丁基氧化錫 Tributyltin oxide (TBTO)* ¹	N.D.	0.03 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
六溴環十二烷 Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
聚氯乙烯 Polyvinyl Chloride (PVC)	Nagetive	/
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
短鏈氯化石蠟 Short Chain Chlorinated Paraffins (SCCPs)	N.D.	100 mg/kg

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檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
四溴雙酚A Tetrabromobisphenol A (TBBP-A)	N.D.	5 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	003	
中鏈氯化石蠟 Middle Chain Chlorinated Paraffins (MCCPs)	N.D.	50 mg/kg

測試項目 Tested Item(s)	CAS No.	結 果 Result	方法檢出限 MDL
		003	
全氟辛酸(PFOA)及其鹽 Perfluorooctanoic acid (PFOA) and its salts			
全氟辛酸 Perfluorooctanoic acid (PFOA)	335-67-1	N.D.	0.01 mg/kg
全氟辛酸銨 Ammonium pentadecafluorooctanoate (APFO)*	3825-26-1	N.D.	0.01 mg/kg
全氟辛酸鈉 Sodium perfluorooctanoate (PFOA-Na)*	335-95-5	N.D.	0.01 mg/kg
全氟辛酸鉀 Potassium perfluorooctanoate (PFOA-K)*	2395-00-8	N.D.	0.01 mg/kg
全氟辛酸銀 Silver perfluorooctanoate (PFOA-Ag)*	335-93-3	N.D.	0.01 mg/kg
全氟辛氟 Perfluorooctanoyl fluoride (PFOA-F)*	335-66-0	N.D.	0.01 mg/kg

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檢測結果 Test Result(s)

測試項目 Tested Item(s)	CAS No.	結果 Result	方法檢出限 MDL
		003	
全氟辛烷磺酸(PFOS)及其鹽和相關物質 Perfluorooctanesulfonic acid (PFOS) and its salts & related substances			
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	1763-23-1	N.D.	0.01 mg/kg
全氟辛基磺酸鉀 Perfluorooctanesulfonic acid, potassium salt (PFOS-K)*	2795-39-3	N.D.	0.01 mg/kg
全氟辛基磺酸鋰 Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)*	29457-72-5	N.D.	0.01 mg/kg
全氟辛基磺酸鈉 Sodium perfluorooctane sulfonate (PFOS-Na)*	4021-47-0	N.D.	0.01 mg/kg
全氟辛基磺酸鎂 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluoro-, magnesium salt (2:1) (PFOS-Mg)*	91036-71-4	N.D.	0.01 mg/kg
全氟辛基磺酸銨 Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)*	29081-56-9	N.D.	0.01 mg/kg
全氟辛基磺酸二乙醇銨 Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)*	70225-14-8	N.D.	0.01 mg/kg
全氟辛基磺酸四乙基銨 Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)*	56773-42-3	N.D.	0.01 mg/kg
全氟辛基磺酸二癸二甲基銨 Didecyl dimethyl ammonium perfluorooctane sulfonate (PFOS-DDA)*	251099-16-8	N.D.	0.01 mg/kg
全氟辛基磺酰氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)*	307-35-7	N.D.	0.01 mg/kg
全氟辛基磺酸哌啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate*	71463-74-6	N.D.	0.01 mg/kg
氟蟲胺 N-Ethylperfluoro-1-octanesulfonamide (N-Et-FOSA)	4151-50-2	N.D.	0.05 mg/kg
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-甲基-辛磺醯胺 N-Methylperfluoro-1-octanesulfonamide (N-Me-FOSA)	31506-32-8	N.D.	0.05 mg/kg
N-乙基全氟辛基磺醯胺乙醇 2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol (N-Et-FOSE)	1691-99-2	N.D.	0.05 mg/kg
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-十七氟-N-(2-羥乙基)-N-甲基-1-辛基磺醯胺 2-(N-Methylperfluoro-1-octanesulfonamido)-ethanol (N-Me-FOSE)	24448-09-7	N.D.	0.05 mg/kg
全氟辛基磺醯胺 Perfluorooctanesulfonamide (PFOSA)	754-91-6	N.D.	0.01 mg/kg

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樣品/部位描述 Sample/Part Description

序號 No.	CTI樣品ID CTI Sample ID	描述 Description
1	003	黑色膏物 Black paste

備註: 對於檢測鉛, 鎘, 汞, 銻, 鉍之樣品已消解完全。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg = ppm = 百萬分之一

-陰性表示不含有聚氯乙烯(PVC)

-*=該物質的結果由其特定化合物的結果換算而來。

-*¹=三丁基氧化錫的濃度值是由三丁基錫結果換算而來。

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Antimony, Beryllium.**

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Not contained Polyvinyl Chloride(PVC)

-*=Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).

-*¹=Concentration value of Tributyltin oxide by the conversion from the test results of Tributyl Tins.

注釋: 本報告中的資料結果供科研、教學、企業內部品質控制、企業產品研發等目的用。

Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

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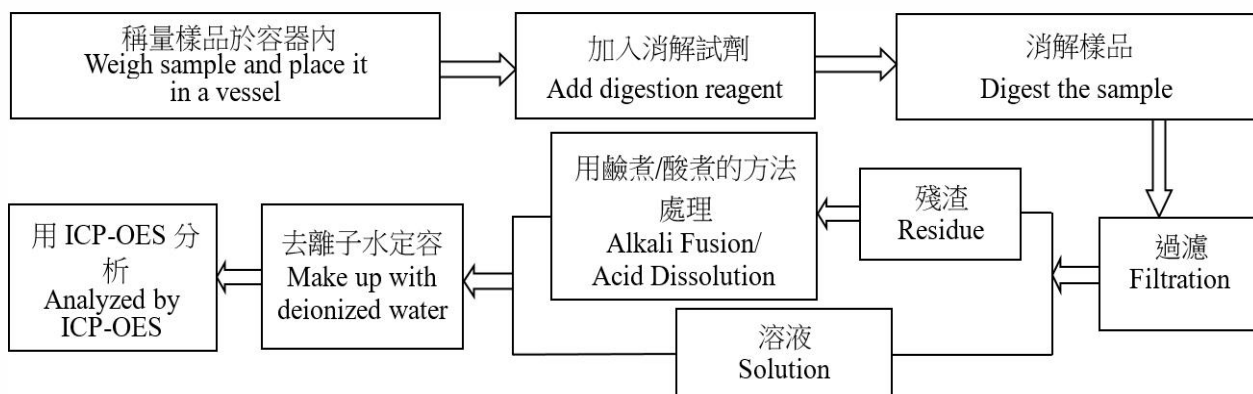
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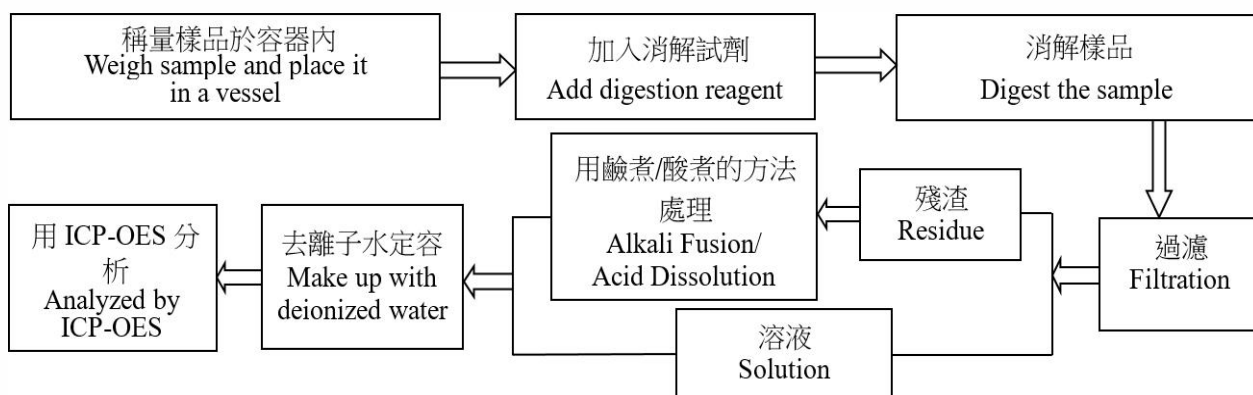
1. 鉛(Pb)， 鎘(Cd)

Lead (Pb), Cadmium (Cd)



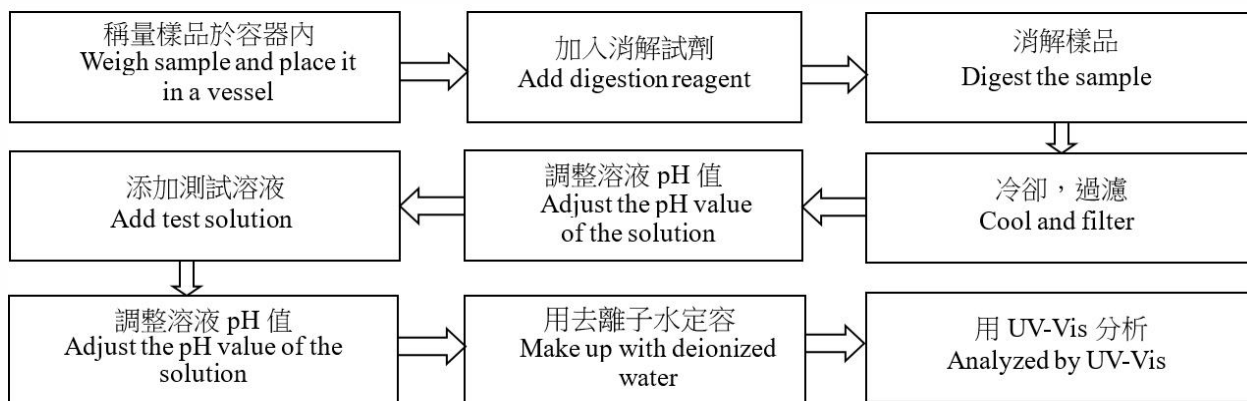
2. 汞(Hg)

Mercury (Hg)



3. 六價鉻(Cr(VI))

Hexavalent Chromium (Cr(VI))



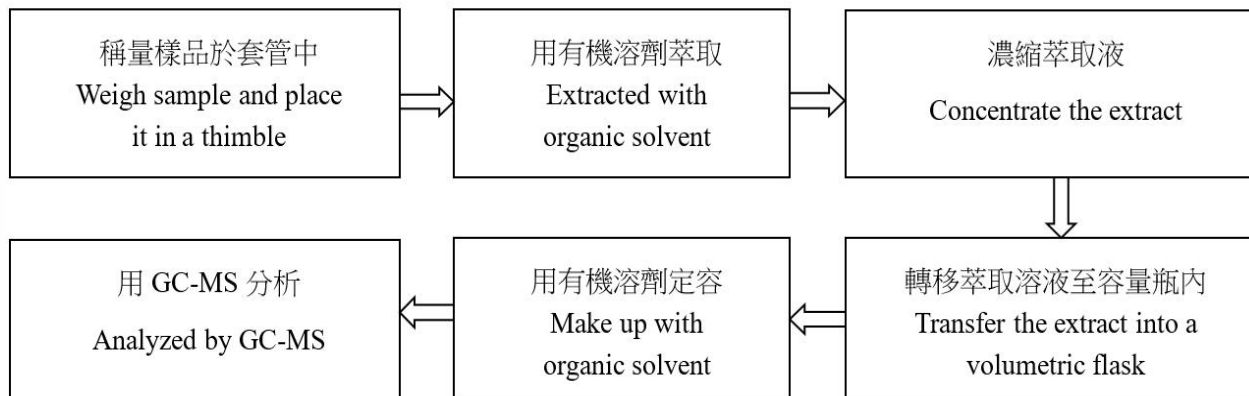
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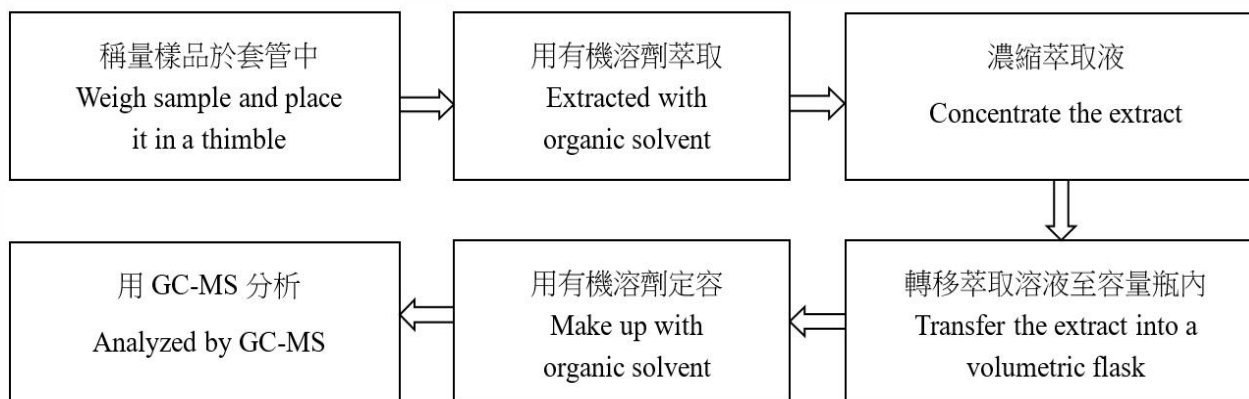
4. 多溴聯苯(PBBs)，多溴二苯醚(PBDEs)，六溴環十二烷(HBCDD)

Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Hexabromocyclododecane (HBCDD)



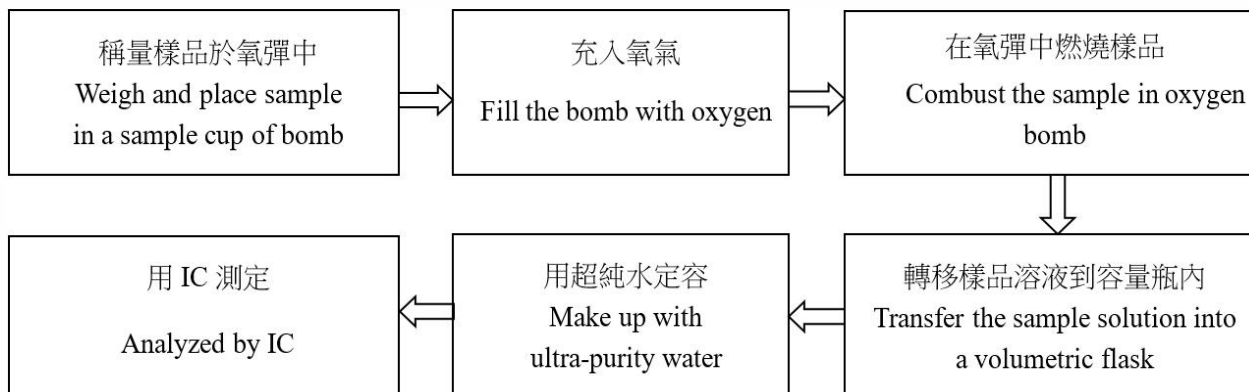
5. 鄰苯二甲酸酯 (DBP, BBP, DEHP, DIBP)，鄰苯二甲酸酯

Phthalates (DBP, BBP, DEHP, DIBP), Phthalates



6. 氟 (F)，氯 (Cl)，溴，碘 (I)

Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



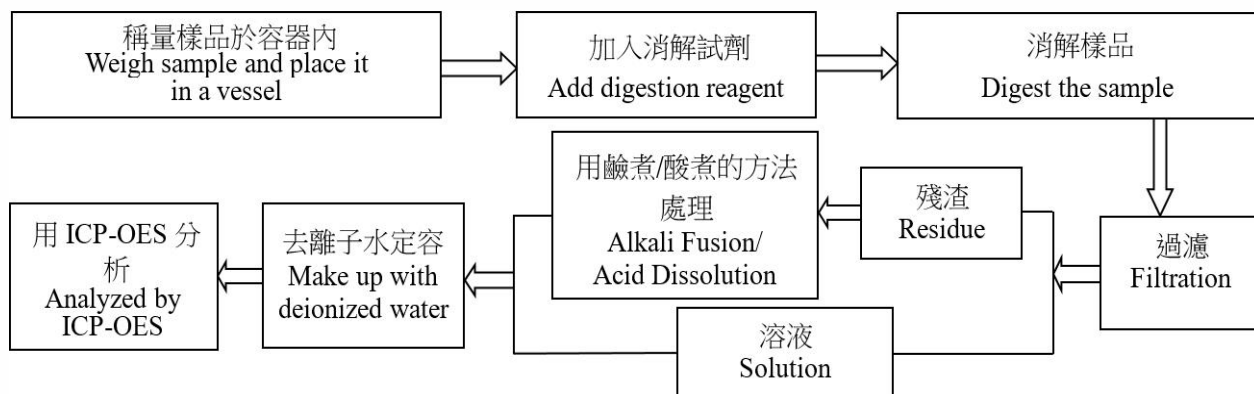
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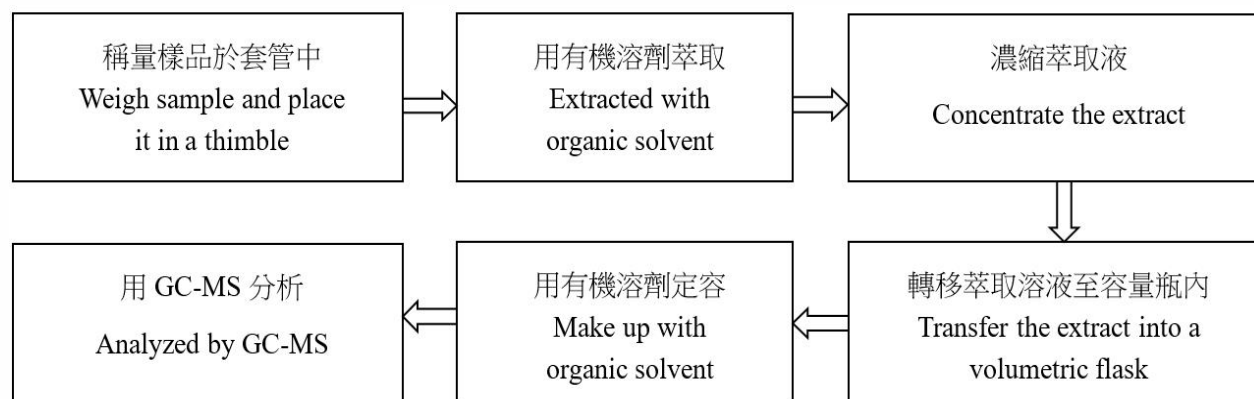
7. 銻 (Sb), 鉍 (Be)

Antimony(Sb), Beryllium(Be)



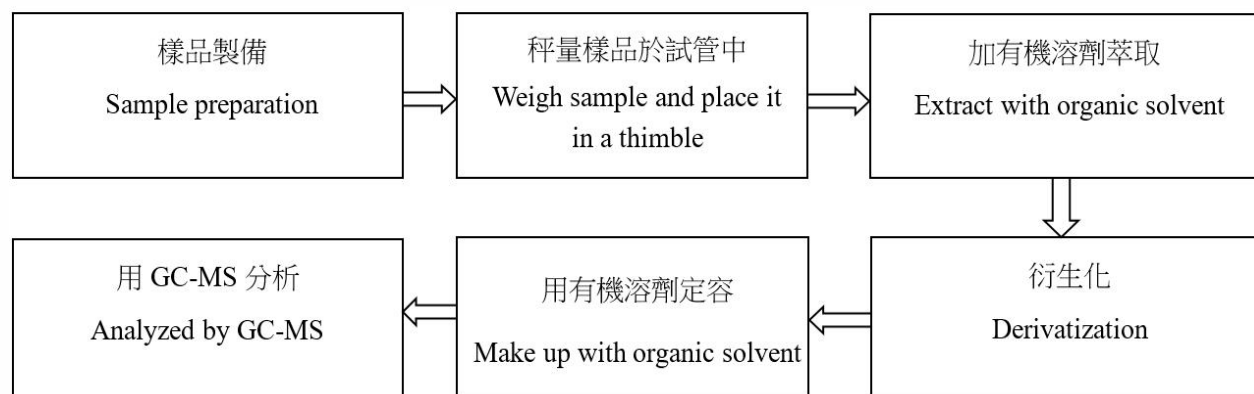
8. 多氯化萘(PCNs), 多氯三聯苯(PCTs), 多氯聯苯(PCBs)

Polychlorinated Naphthalenes (PCNs), Polychlorinated terphenyls (PCTs), Polychlorinated Biphenyls(PCBs)



9. 有機錫

Organotin compounds



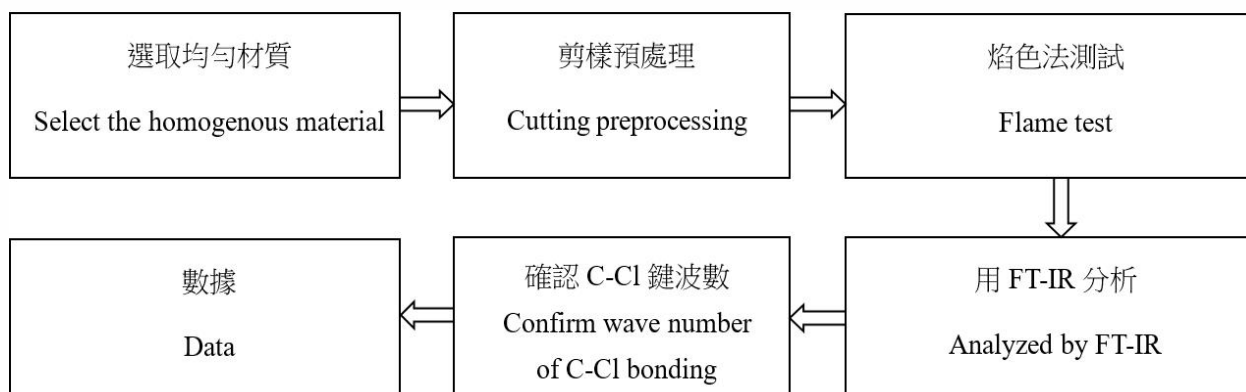
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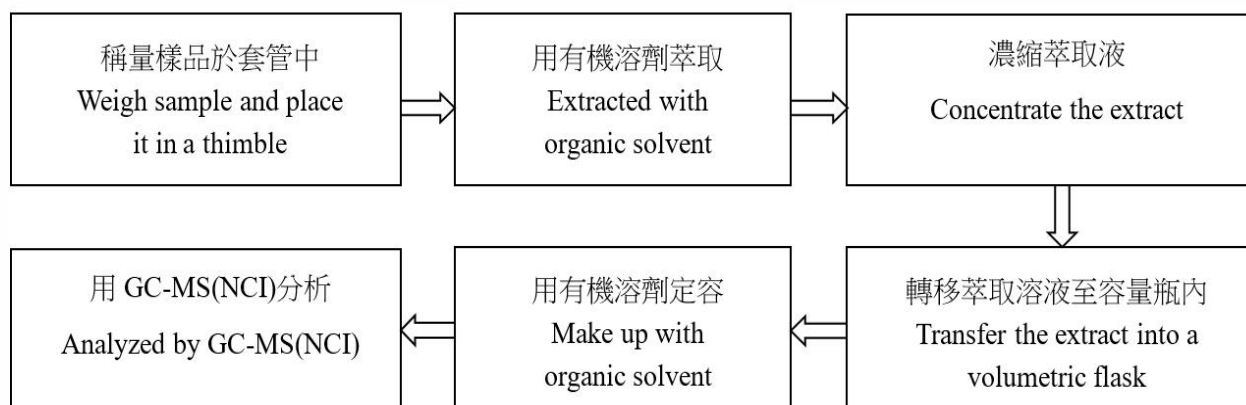
10. 聚氯乙烯(PVC)

Polyvinyl Chloride (PVC)



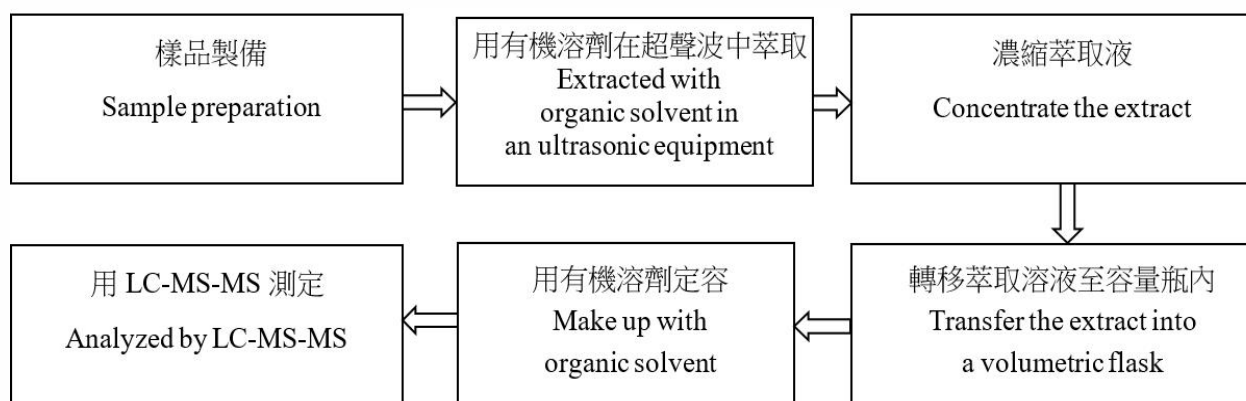
11. 中鏈氯化石蠟(MCCPs), 短鏈氯化石蠟(SCCPs)

Middle Chain Chlorinated Paraffins (MCCPs), Short Chain Chlorinated Paraffins (SCCPs)



12. 全氟辛酸類(PFOA)相關物質及其鹽, 全氟辛烷磺酸鹽(PFOS)及其相關物質

Perfluorooctanoic acid (PFOA) and its salts, Perfluorooctanesulfonic acid (PFOS) and its salts & related substances



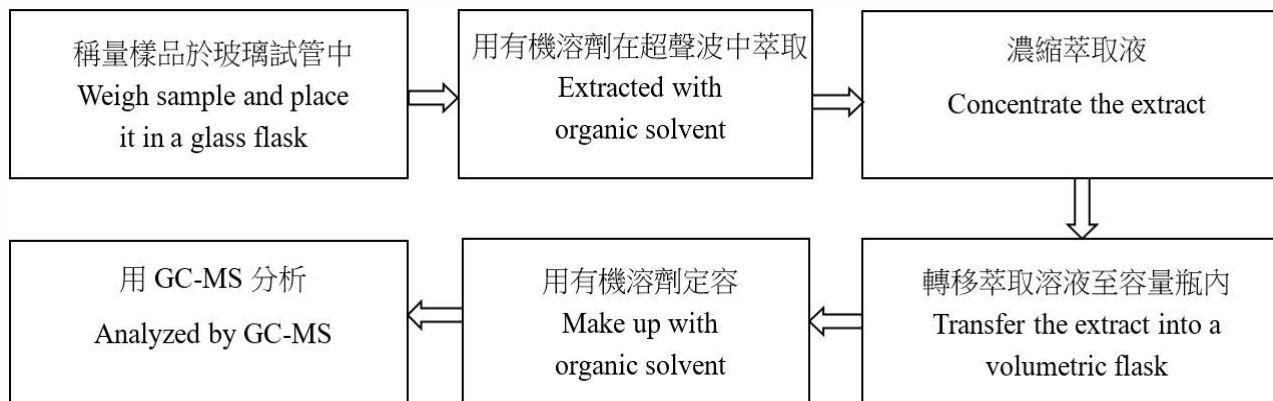
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13. 四溴雙酚 A (TBBP-A)

Tetrabromobisphenol A (TBBP-A)



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樣品圖片 Photo(s) of the sample(s)



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*** End of report ***