CTI 華測檢測

檢測報告
Test Report

報告編號 A2250606951101001E
Report No. A2250606951101001E

報告抬頭公司名稱 大毅科技股份有限公司
Company Name shown on Report TA-I TECHNOLOGY.CO., LTD
地　　址 台灣桃園市蘆竹區南山路三段 17 巷 4 號
Address NO.4, LN. 17, SEC. 3, NANSHAN RD., LUZHU DIST., TAOYUAN CITY 33860, TAIWAN, 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 Sample Name	Conductor Paste
樣品型號 Model No.	AZZ.002.5XXX
樣品顏色 Color	Sliver
材料名稱 Material	Ag
備註 Remark	燒結後固化或硬化的樣品 A sintered and solidified sample
樣品接收日期 Sample Received Date	2025.08.19 Aug. 19, 2025
樣品檢測日期 Testing Period	2025.08.19-2025.08.25 Aug. 19, 2025 to Aug. 25, 2025
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(DBP, BBP, DEHP, DIBP)，氟(F)，氯(Cl)，溴(Br)，碘(I)，鄰苯二甲酸酯，聚氯乙烯(PVC)，短鏈氯化石蠟(SCCPs)，中鏈氯化石蠟(MCCPs)，六溴環十二烷(HBCDD)，多氯聯苯(PCBs)，雙酚 A (BPA)，砷(As)，鈹(Be)，銻(Sb)，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 (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Phthalates, Polyvinyl Chloride (PVC), Short Chain Chlorinated Paraffins (SCCPs), Middle Chain Chlorinated Paraffins (MCCPs), Hexabromocyclododecane (HBCDD), Polychlorinated Biphenyls(PCBs), Bisphenol A (BPA), Antimony(Sb), Arsenic(As), Beryllium(Be), 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 **Test Method/Test Result(s)**	請參見下頁。 Please refer to the following page(s).

核　准 Approved by　馮智聰 實驗室經理 Laboratory Manager　日　期 Date　2025.08.26

No. R175251824

台灣華測檢測技術有限公司檢測中心
Testing Center, Centre Testing International (Taiwan) Co., Ltd.
桃園市蘆竹區南崁路二段 9 號 5 樓之 6
5F 6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

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測試項目 Tested 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 (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC
鄰苯二甲酸酯 Phthalates	IEC 62321-8:2017	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
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
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
砷 Arsenic(As)	參考 US EPA 3052:1996 & US EPA 6010D:2018 Refer to US EPA 3052:1996 & US EPA 6010D:2018	ICP-OES
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)
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)

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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
雙酚 A Bisphenol A (BPA)	參考 US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
全氟辛酸(PFOA)及其鹽 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
	001	
鉛 Lead (Pb)	N.D.	2 mg/kg
鎘 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六價鉻 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	001	
多溴聯苯 Polybrominated Biphenyls (PBBs)		
一溴聯苯 Monobromobiphenyl	N.D.	5 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
	001	
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 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
	001	
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
鄰苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 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
鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
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

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
鄰苯二甲酸酯 Phthalates		
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
鄰苯二甲酸二戊酯 Dipentyl phthalate (DPP/DPENP) CAS#:131-18-0	N.D.	50 mg/kg
鄰苯二甲酸二異辛酯 Diisooctyl phthalate (DIOP) CAS#:27554-26-3	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

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測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
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

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
多氯聯苯 Polychlorinated Biphenyls(PCBs)		
一氯聯苯 Monochlorobiphenyl	N.D.	5 mg/kg
二氯聯苯 Dichlorobiphenyl	N.D.	5 mg/kg
三氯聯苯 Trichlorobiphenyl	N.D.	5 mg/kg
四氯聯苯 Tetrachlorobiphenyl	N.D.	5 mg/kg
五氯聯苯 Pentachlorobiphenyl	N.D.	5 mg/kg
六氯聯苯 Hexachlorobiphenyl	N.D.	5 mg/kg
七氯聯苯 Heptachlorobiphenyl	N.D.	5 mg/kg
八氯聯苯 Octachlorobiphenyl	N.D.	5 mg/kg
九氯聯苯 Nonachlorobiphenyl	N.D.	5 mg/kg
十氯聯苯 Decachlorobiphenyl	N.D.	5 mg/kg

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
六溴環十二烷 Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
聚氯乙烯 Polyvinyl Chloride (PVC)	陰 性 Negative	/

測試項目 Tested Item(s)	結 果 Result	方法檢出限 MDL
	001	
短鏈氯化石蠟 Short Chain Chlorinated Paraffins (SCCPs)	N.D.	50 mg/kg

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測試項目 Tested Item(s)	結 果 Result 001	方法檢出限 MDL
雙酚A Bisphenol A (BPA)	N.D.	1 mg/kg

測試項目 Tested Item(s)	結 果 Result 001	方法檢出限 MDL
中鏈氯化石蠟Middle Chain Chlorinated Paraffins (MCCPs)	N.D.	50 mg/kg

測試項目 Tested Item(s)	結 果 Result 001	方法檢出限 MDL
銻 Antimony (Sb)	N.D.	2 mg/kg
測試項目 Tested Item(s)	**結 果 Result 001**	**方法檢出限 MDL**
鈹 Beryllium (Be)	N.D.	2 mg/kg
測試項目 Tested Item(s)	**結 果 Result 001**	**方法檢出限 MDL**
砷Arsenic(As)	N.D.	2 mg/kg

測試項目 Tested Item(s)	CAS No.	結 果 Result 001	方法檢出限 MDL
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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測試項目 Tested Item(s)	CAS No.	結 果 Result 001	方法檢出限 MDL
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-heptadecafluoro-, 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胺 Perfluorooctanesulfonic acid, tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)*	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
全氟辛基磺醯氟 Perfluoro-1-octanesulfonyl fluoride (PFOSF)*	307-35-7	N.D.	0.01 mg/kg
全氟辛基磺酸呱啶 Piperidine 1,1,2,2,3,3,4,4,5,5,6,6, 7,7,8,8,8-heptadecafluorooctanesulfonate*	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	001	灰色固體 Gray solid

備註: **對於檢測鉛，鎘，汞，銻，鈹，砷之樣品已消解完全。**
-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。

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

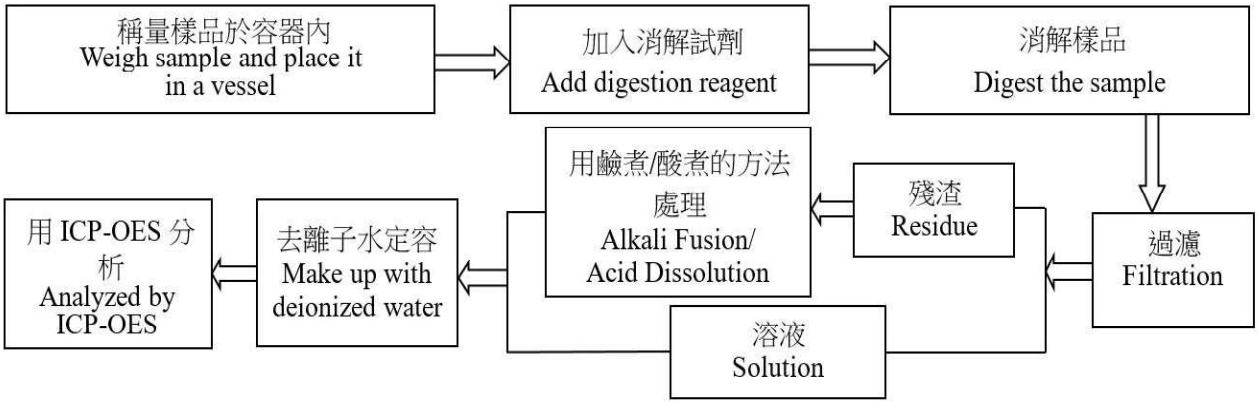
注釋: **本報告中的資料結果供科研、教學、企業內部品質控制、企業產品研發等目的用。**

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

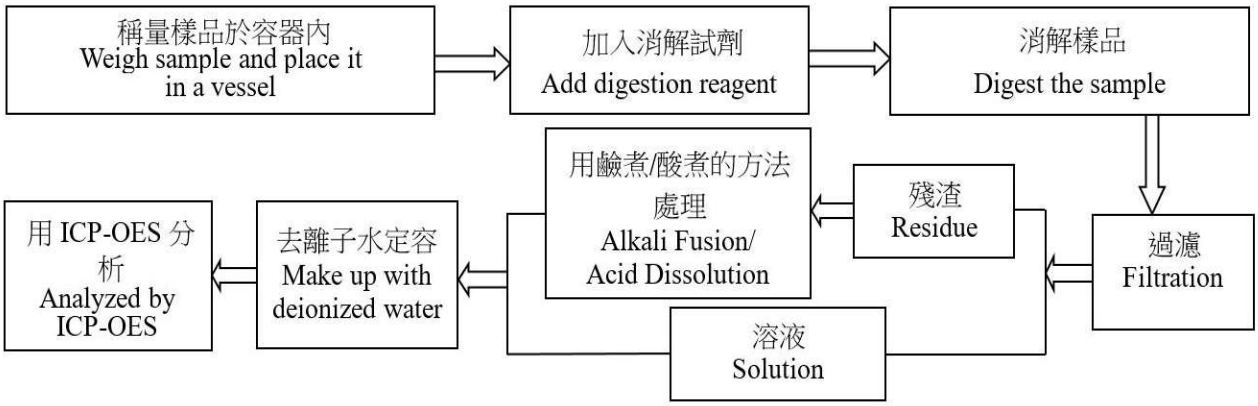
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檢測流程 Test Process

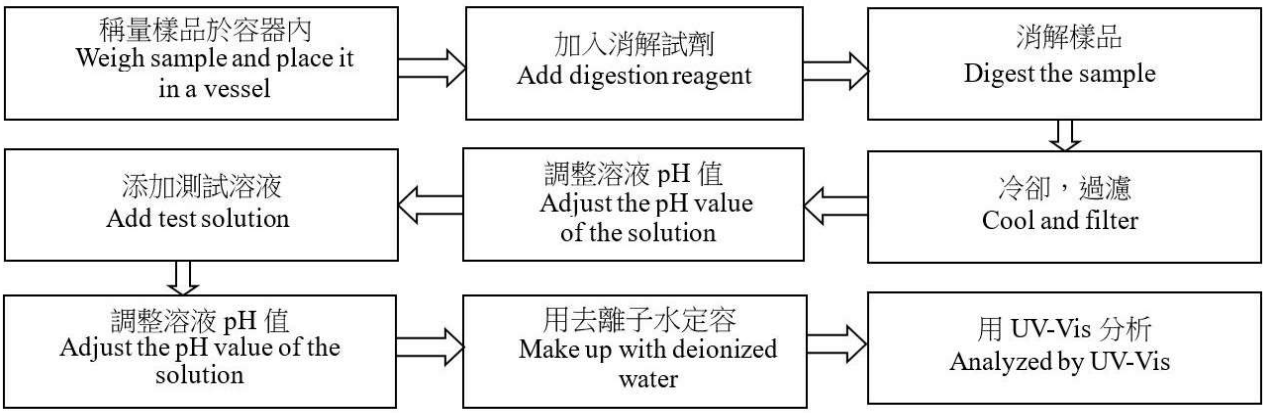
1. 鉛 Lead (Pb), 鎘 Cadmium (Cd)



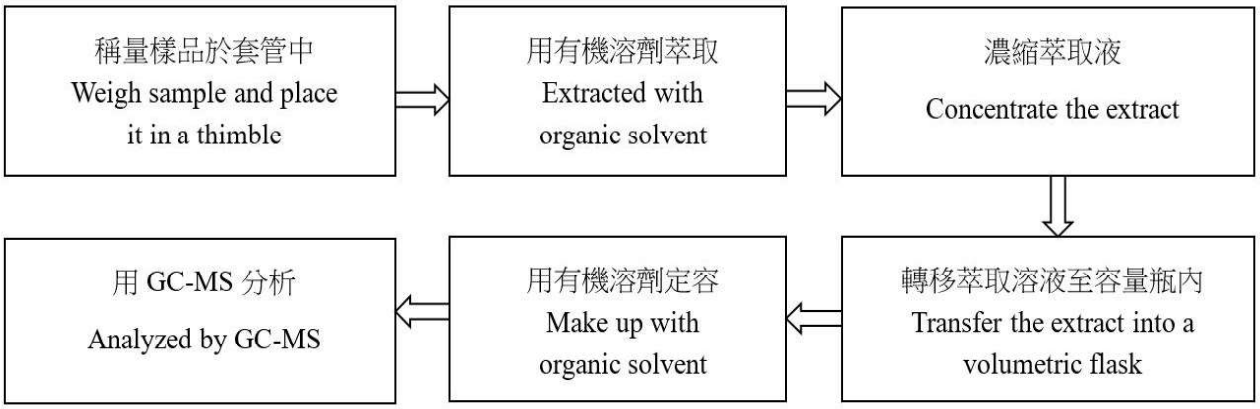
2. 汞 Mercury (Hg)



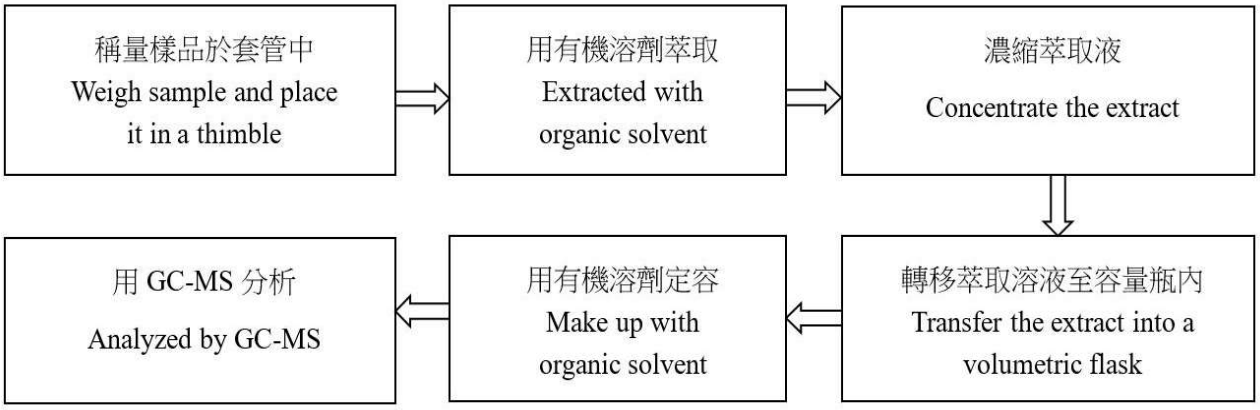
3. 六價鉻 Hexavalent Chromium (Cr(VI))



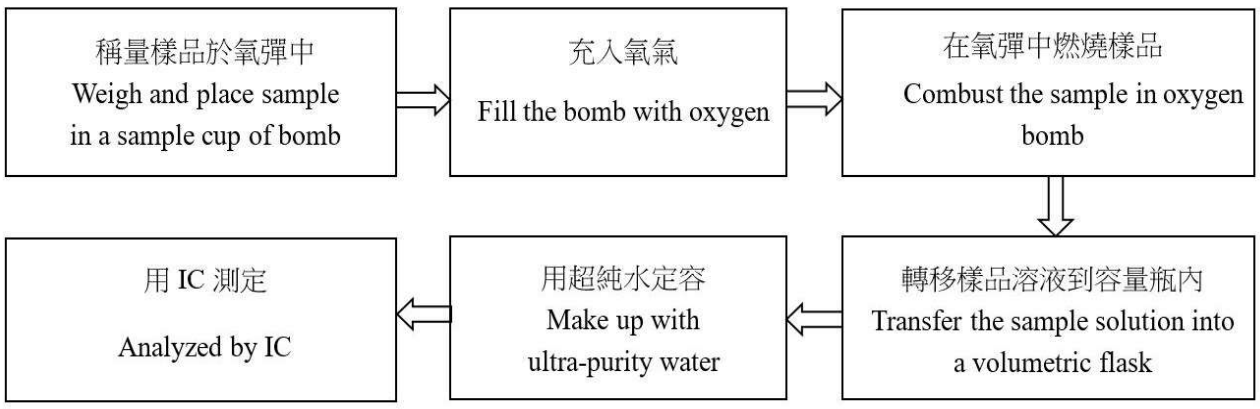
4. 多溴聯苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



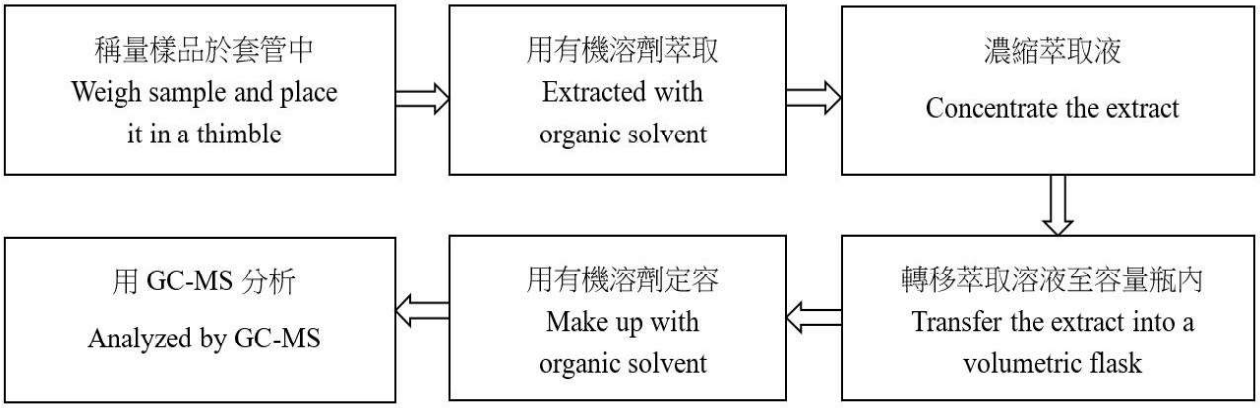
5. 鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP), 鄰苯二甲酸酯 Phthalates



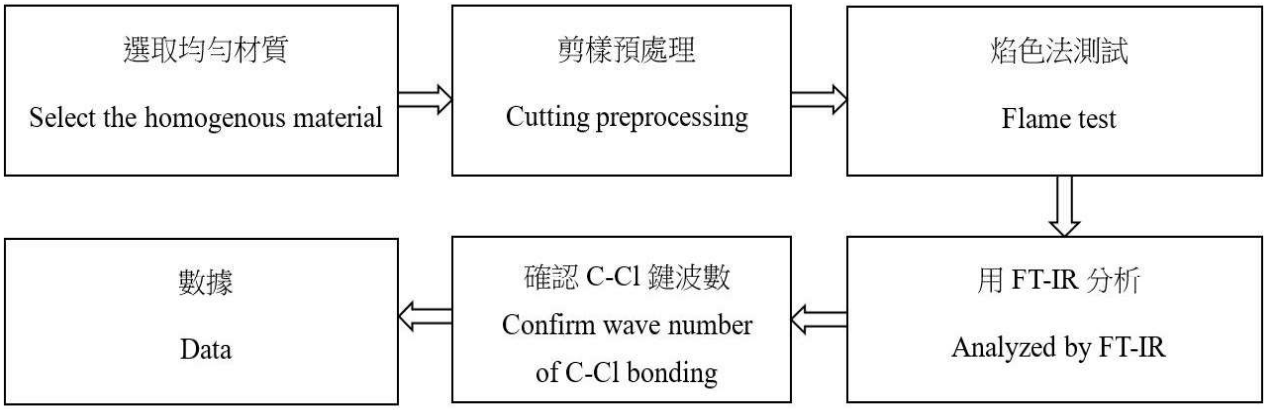
6. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



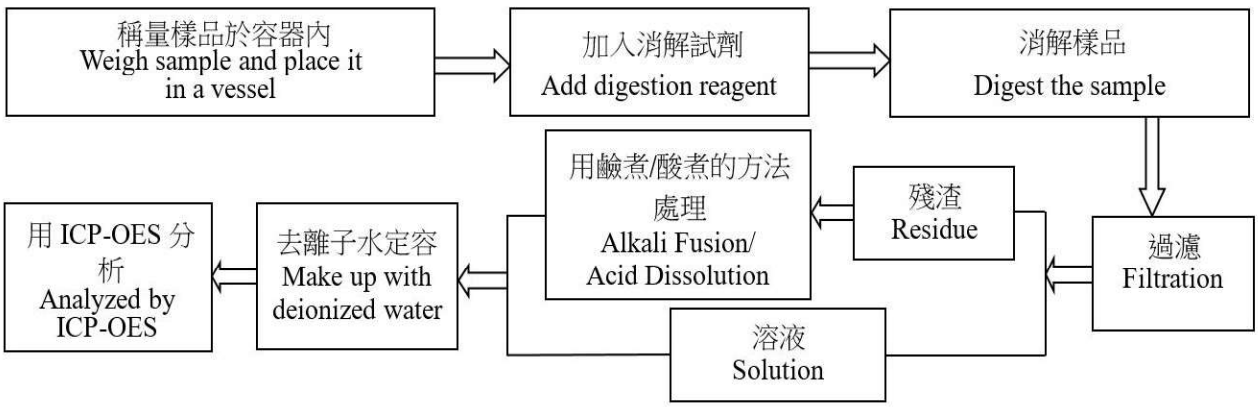
7. 六溴環十二烷 Hexabromocyclododecane (HBCDD)



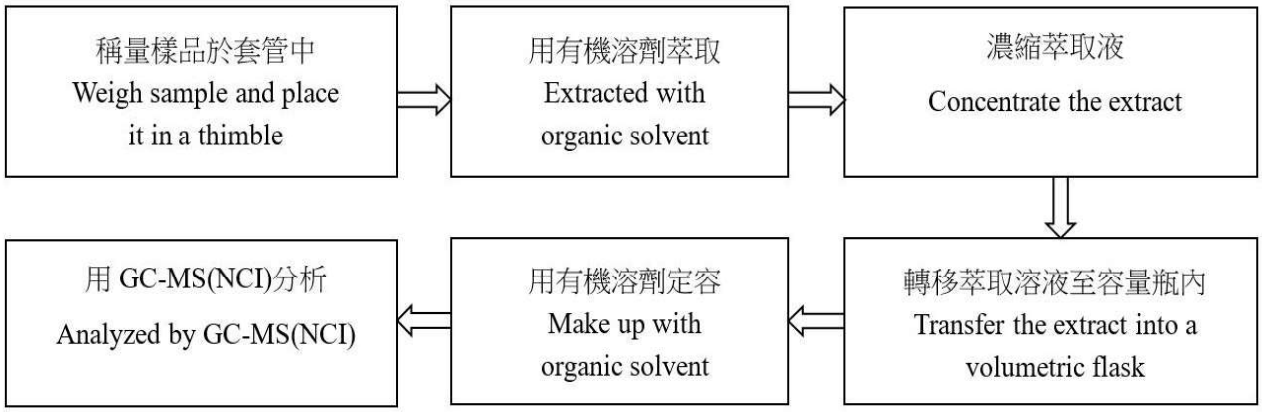
8. 聚氯乙烯 Polyvinyl Chloride (PVC)



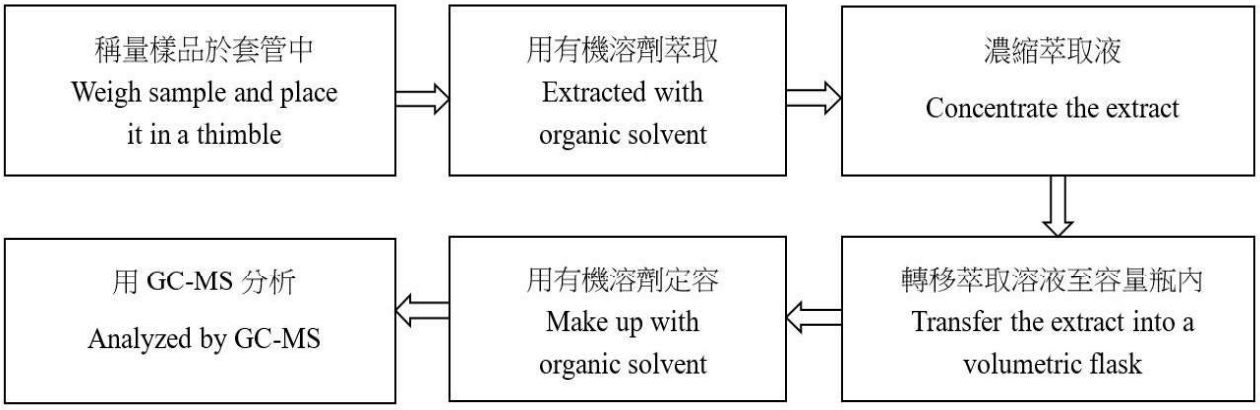
9. 砷 Arsenic(As), 鈹 Beryllium(Be), 銻 Antimony(Sb)



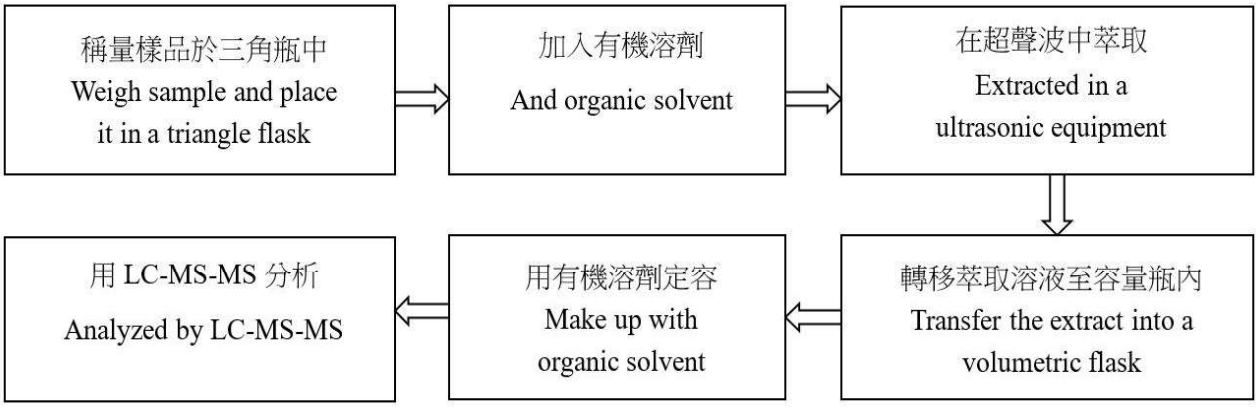
10. 中鏈氯化石蠟 Middle Chain Chlorinated Paraffins (MCCPs), 短鏈氯化石蠟 Short Chain Chlorinated Paraffins (SCCPs)



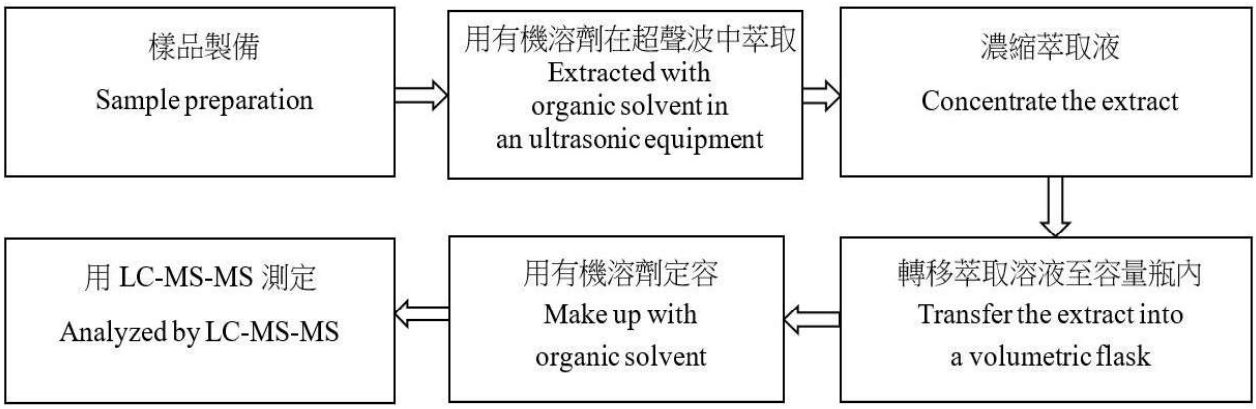
11. 多氯聯苯 Polychlorinated Biphenyls(PCBs)



12. 雙酚 A Bisphenol A (BPA)



13. 全氟辛酸(PFOA)及其鹽 Perfluorooctanoic acid (PFOA) and its salts, 全氟辛烷磺酸(PFOS)及其鹽和相關物質 Perfluorooctanesulfonic acid (PFOS) and its salts & related substances



檢測報告
Test Report

樣品圖片

Photo(s) of the sample(s)



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