

檢測報告  
Test Report報告編號 A2240723017101002E  
Report No. A2240723017101002E第 1 頁 共 14 頁  
Page 1 of 14報告抬頭公司名稱 瑞昇金屬工業股份有限公司  
Company Name REDSUN METAL IND. CO., LTD  
shown on  
Report地址 320030 桃園市中壢區定寧路2號  
Address NO.2, DINGNING RD., ZHONGLI DIST., TAOYUAN CITY 320030

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	錫膏
Sample Name	SOLDER PASTE
樣品顏色	銀
Color	銀
樣品接收日期	2024.11.20
Sample Received	Nov. 20, 2024
Date 樣品檢測日期	2024.11.20-2024.11.26
Testing Period	Nov. 20, 2024 to Nov. 26, 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(DBP, BBP, DEHP, DIBP)，氟(F)，氯(Cl)，溴(Br)，碘(I)，鄰苯二甲酸酯，銻(Sb)，鉍(Be)，砷(As)，六溴環十二烷(HBCDD)，多氯聯苯(PCBs)，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, Antimony(Sb), Beryllium(Be), Arsenic(As), Hexabromocyclododecane (HBCDD), 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).

批 准  
馮智聰

馮智聰

實驗室經理 Laboratory Manager

日期  
Date

2024.11.26

No. R556664836

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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## 結論 Conclusion

測試樣品 Tested Sample	依據標準/指令 According to standard/directive	結果 Result
提交樣品 Submitted Sample	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

\*\*\*\*\*

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 (DBP, BBP, DEHP, DIBP)	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
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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**檢測依據 Test Method**

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
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
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
六溴環十二烷 Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-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
	002		
鉛 Lead (Pb)	929170 mg/kg * <sup>1</sup>	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
	002		
<b>多溴聯苯 Polybrominated Biphenyls (PBBs)</b>			
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
	002		
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>			
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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### 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
	002		
<b>鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)</b>			
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	
	002		
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
	002	
<b>鄰苯二甲酸酯 Phthalates</b>		
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
	002	
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
	002	
鈹 Beryllium (Be)	N.D.	2 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	002	
銻 Antimony (Sb)	N.D.	2 mg/kg
測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
	002	
砷 Arsenic(As)	N.D.	2 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
	002	
<b>多氯聯苯 Polychlorinated Biphenyls(PCBs)</b>		
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)	CAS No.	結果 Result	方法檢出限 MDL
		002	
<b>全氟辛酸(PFOA)及其鹽</b>			
<b>Perfluorooctanoic acid (PFOA) and its salts</b>			
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
		002	
<b>全氟辛烷磺酸(PFOS)及其鹽和相關物質 Perfluorooctanesulfonic acid (PFOS) and its salts &amp; related substances</b>			
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 <sub>4</sub> )*	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) <sub>2</sub> )*	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 <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )*	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	002	灰色固體(乾重) Gray solid (dry weight)

**備註:** 對於檢測鉛, 鎘, 汞, 鉍, 銻, 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  
-1000 mg/kg = 0.1%  
-\*=該物質的結果由其特定化合物的結果換算而來。  
-\*=根據客戶聲明, 樣品涉及歐盟RoHS指令2011/65/EU豁免項第7(a) 條: 高溫熔融焊料中的鉛 (即: 鉛基合金中鉛含量 $\geq$ 85% (Wt) )。  
-\*=測試結果僅供參考。

**Remark:** **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium, Antimony, Arsenic.**  
-MDL = Method Detection Limit  
-N.D. = Not Detected (<MDL)  
-mg/kg = ppm = parts per million  
-1000 mg/kg = 0.1%  
-\*=Result(s) shown of the substance(s) is/ are converted from the result(s) of certain compound(s).  
-\*=According to the client's statement, the material of the sample(s) fall into exemption item 7(a) according to EU Directive 2011/65/EU: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).  
-\*=Testing results are only used for reference.

**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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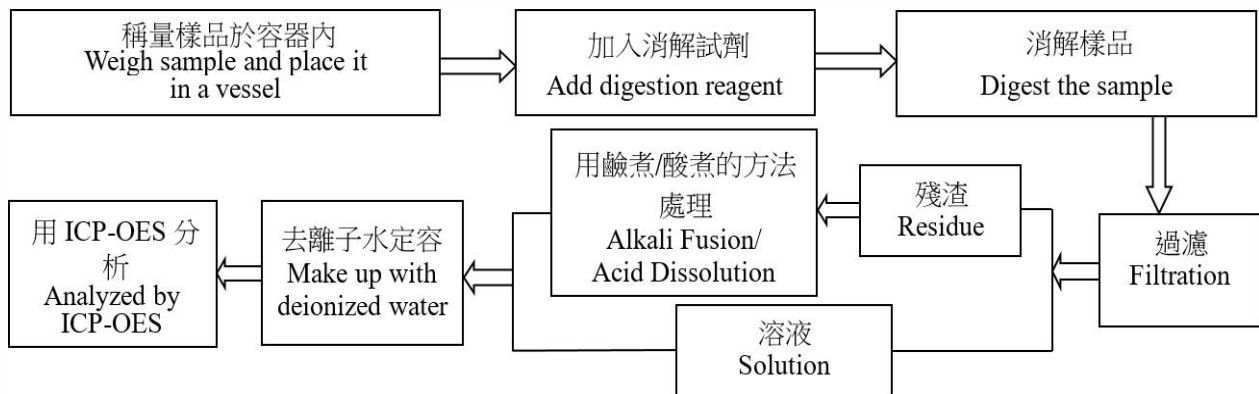
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## 檢測流程 Test Process

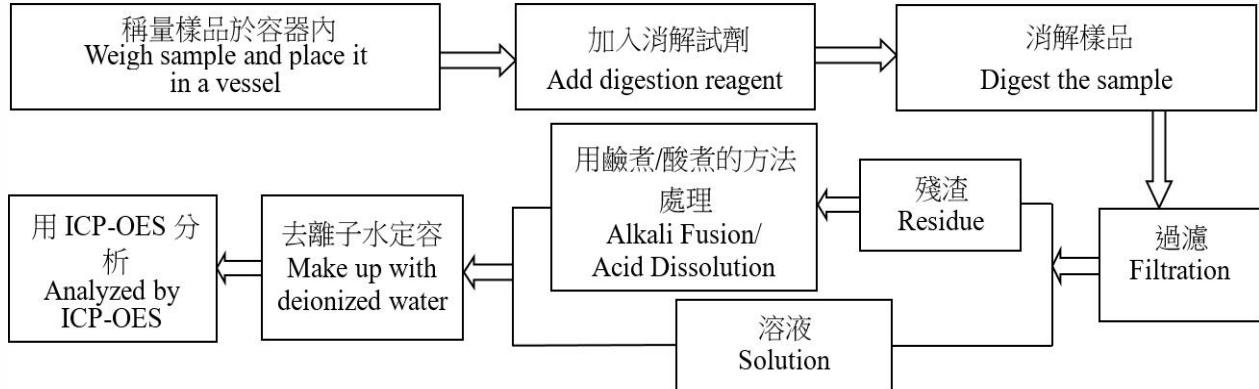
### 1. 鉛(Pb), 鎘(Cd)

Lead (Pb), Cadmium (Cd)



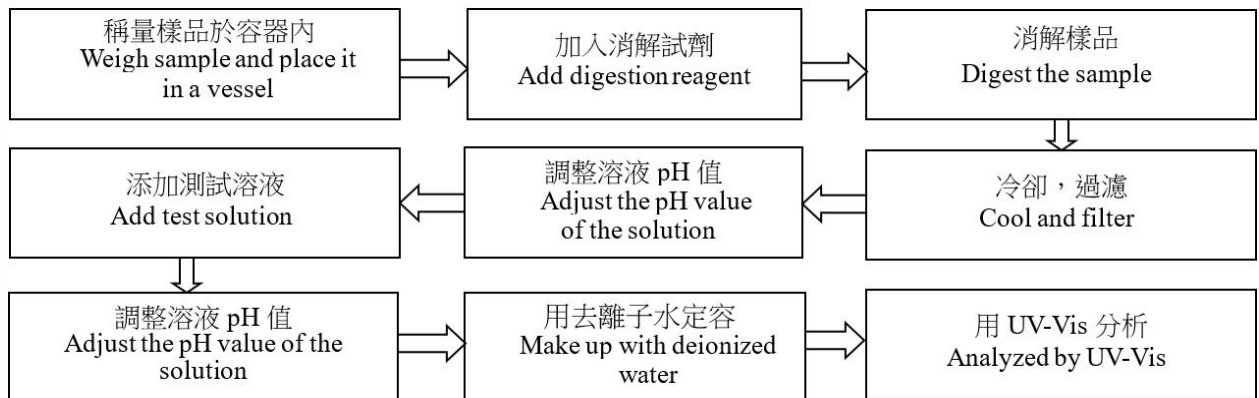
### 2. 汞(Hg)

Mercury (Hg)



### 3. 六價鉻(Cr(VI))

Hexavalent Chromium (Cr(VI))



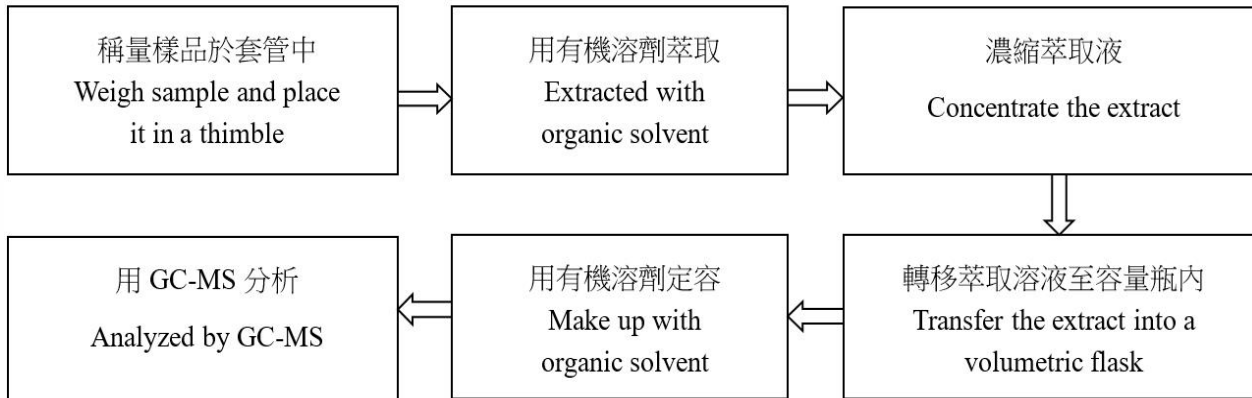
# 檢測報告 Test Report

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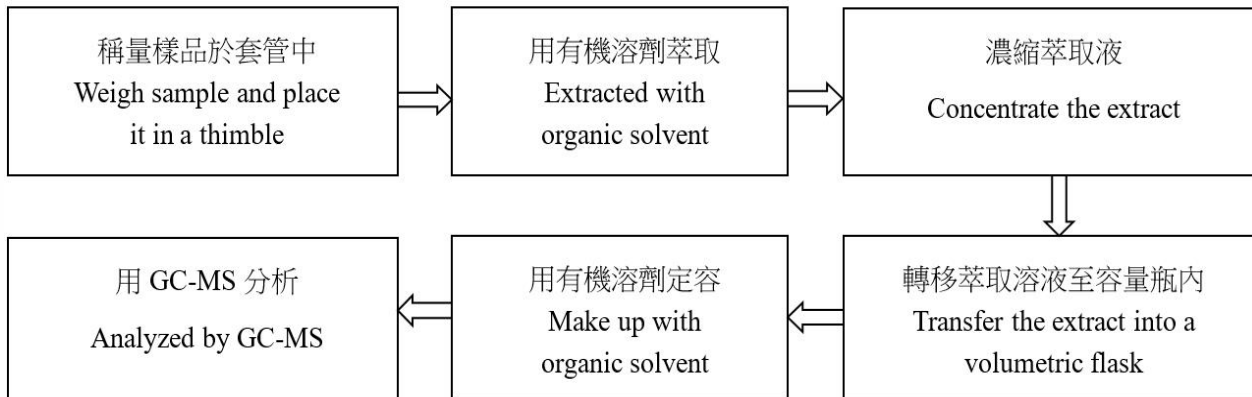
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**4. 多溴聯苯(PBBs)，多溴二苯醚(PBDEs)**

**Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)**

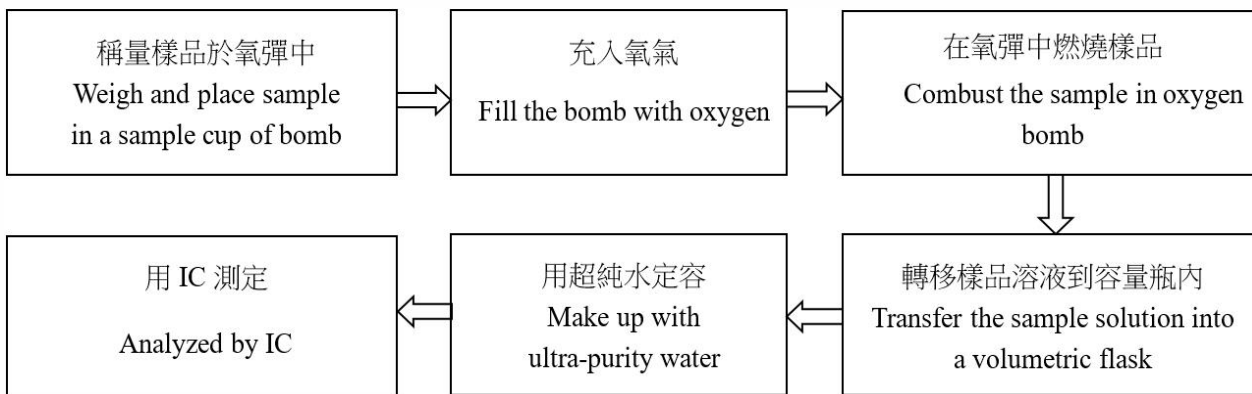


**5. 鄰苯二甲酸酯(DBP, BBP, DEHP, DIBP)，鄰苯二甲酸酯  
Phthalates (DBP, BBP, DEHP, DIBP), Phthalates**



**6. 氟 (F)，氯 (Cl)，溴 (Br)，碘 (I)**

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

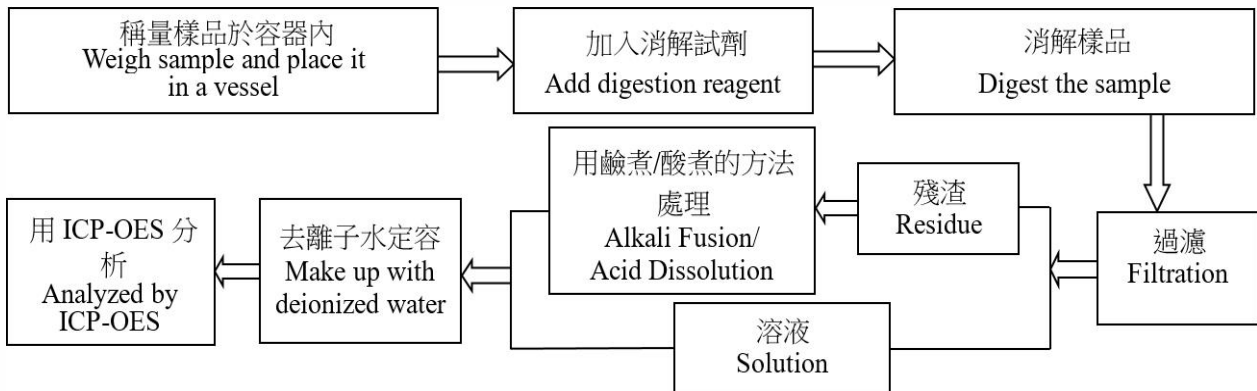


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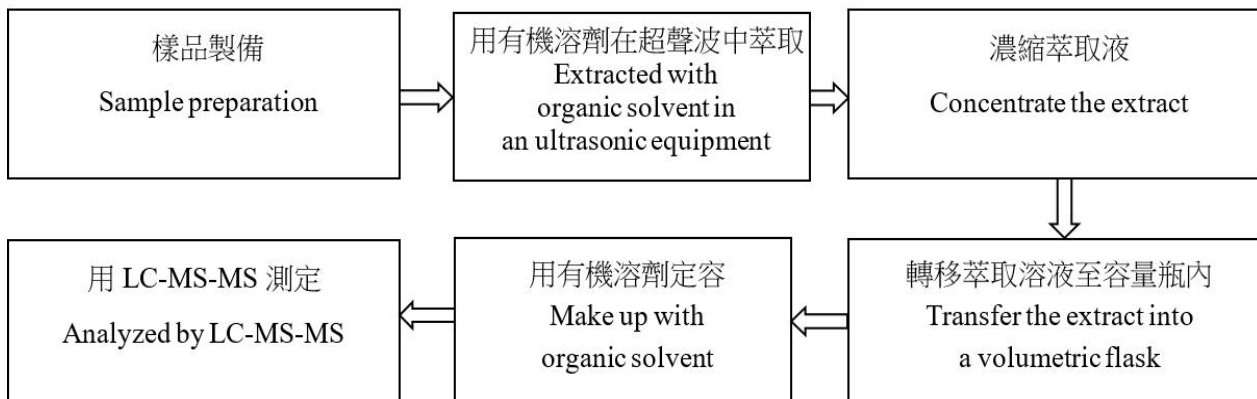
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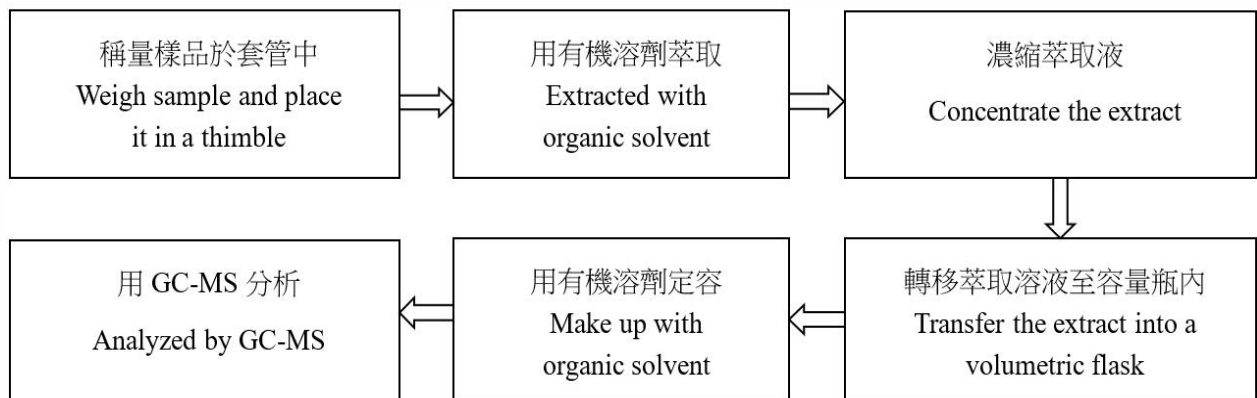
7. 鈹 (Be), 銻 (Sb), 砷 (As)  
Beryllium(Be), Antimony(Sb), Arsenic(As)



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



9. 六溴環十二烷 (HBCDD), 多氯聯苯(PCBs)  
Hexabromocyclododecane (HBCDD), Polychlorinated Biphenyls(PCBs)



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## 樣品圖片 Photo(s) of the sample(s)



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## 附錄 Appendix

### 客戶參考信息 Client Reference Information

B280P3202J、B280P3202-8-1、B280P3202G-11、B280J8882A、B280J8882C、B280M3202J、  
B280J8882G2、B280J8882G3、B280J8882G4、B280J8882P、B280JPIN6G、P280MJ882L、  
P280MJ202L、P280MJ882P、P280J202M、S280MJ882M、S280MJ202L、S280J202L、NCY-40-280、  
B280P32590、SH925N-5N、SH925N-8-1N、PH925N-9K...等B280系列

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