

測試報告

Test Report

號碼(No.) : CE/2019/90763

日期(Date) : 2019/09/12

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東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

苗栗縣竹南鎮和興路346號

NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.


以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 東協化工股份有限公司 (TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.)
樣品名稱(Sample Description) : POLYESTER IMIDE INSULATING VARNISH (聚亞胺聚酯絕緣凡立水)
樣品型號(Style/Item No.) : PE-155-XX, PE-165-XX, PE-526-XX, PE-528-XX, PE-539-XX(含A), PE-590-XX(含A), EI-306-XX, SEI-180-XX, SP-24-XX。
買主/訂單號碼(Buyer/Order No.) : 0017003<PE-539-XX >
收件日期(Sample Receiving Date) : 2019/09/05
測試期間(Testing Period) : 2019/09/05 to 2019/09/12

測試需求(Test Requested):

- (1) 依據客戶指定, 參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
- (2) 其他測試項目請見下一頁。 (Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).


Troy Chang / Manager - Tech
Signed for and behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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測試結果(Test Results)

測試部位(PART NAME)No. 1 : 棕色液體 (BROWN LIQUID)

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) |
|----------------------------------|--------------|--|-------|----------------|
| | | | | No. 1 |
| 鎘 / Cadmium (Cd) | mg/kg | 參考IEC 62321-5 (2013), 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES. | 2 | n. d. |
| 鉛 / Lead (Pb) | mg/kg | 參考IEC 62321-5 (2013), 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES. | 2 | n. d. |
| 汞 / Mercury (Hg) | mg/kg | 參考IEC 62321-4:2013+ AMD1:2017, 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-4:2013+ AMD1:2017 and performed by ICP-OES. | 2 | n. d. |
| 六價鉻 / Hexavalent Chromium Cr(VI) | mg/kg | 參考IEC 62321-7-2 (2017), 以UV-VIS檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. | 8 | n. d. |
| 多溴聯苯總和 / Sum of PBBs | mg/kg | 參考IEC 62321-6 (2015), 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS. | - | n. d. |
| 一溴聯苯 / Monobromobiphenyl | mg/kg | | 5 | n. d. |
| 二溴聯苯 / Dibromobiphenyl | mg/kg | | 5 | n. d. |
| 三溴聯苯 / Tribromobiphenyl | mg/kg | | 5 | n. d. |
| 四溴聯苯 / Tetrabromobiphenyl | mg/kg | | 5 | n. d. |
| 五溴聯苯 / Pentabromobiphenyl | mg/kg | | 5 | n. d. |
| 六溴聯苯 / Hexabromobiphenyl | mg/kg | | 5 | n. d. |
| 七溴聯苯 / Heptabromobiphenyl | mg/kg | | 5 | n. d. |
| 八溴聯苯 / Octabromobiphenyl | mg/kg | | 5 | n. d. |
| 九溴聯苯 / Nonabromobiphenyl | mg/kg | | 5 | n. d. |
| 十溴聯苯 / Decabromobiphenyl | mg/kg | 5 | n. d. | |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) |
|---|--------------|---|-----|----------------|
| | | | | No. 1 |
| 多溴聯苯醚總和 / Sum of PBDEs | mg/kg | 參考IEC 62321-6 (2015), 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS. | - | n. d. |
| 一溴聯苯醚 / Monobromodiphenyl ether | mg/kg | | 5 | n. d. |
| 二溴聯苯醚 / Dibromodiphenyl ether | mg/kg | | 5 | n. d. |
| 三溴聯苯醚 / Tribromodiphenyl ether | mg/kg | | 5 | n. d. |
| 四溴聯苯醚 / Tetrabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 五溴聯苯醚 / Pentabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 六溴聯苯醚 / Hexabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 七溴聯苯醚 / Heptabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 八溴聯苯醚 / Octabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 九溴聯苯醚 / Nonabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 十溴聯苯醚 / Decabromodiphenyl ether | mg/kg | | 5 | n. d. |
| 鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7) | mg/kg | 參考IEC 62321-8 (2017), 以氣相層析/質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS. | 50 | n. d. |
| 鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di-(2-ethylhexyl) phthalate) (CAS No. : 117-81-7) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No. : 28553-12-0; 68515-48-0) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No. : 117-84-0) | mg/kg | | 50 | n. d. |

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| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) |
|--|--------------|--|-----|----------------|
| | | | | No. 1 |
| 六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | mg/kg | 參考 IEC 62321 (2008), 以氣相層析/質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS. | 5 | n. d. |
| 鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No.: 84-66-2) | mg/kg | 參考 IEC 62321-8 (2017), 以氣相層析/質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS. | 50 | n. d. |
| 鄰苯二甲酸二甲酯 / DMP (Di-methyl phthalate) (CAS No.: 131-11-3) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二異辛酯 / DIOP (Di-isooctyl phthalate) (CAS No.: 27554-26-3) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二丙酯 / DPrP (Di-propyl phthalate) (CAS No.: 131-16-8) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二環己酯 / DCHP (Di-cyclohexyl phthalate) (CAS No.: 84-61-7) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二正壬酯 / DNPP (Di-n-nonyl phthalate) (DNP) (CAS No.: 84-76-4) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二戊酯 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二正己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二苯甲基酯 / DBzP (Dibenzyl phthalate) (CAS No.: 523-31-9) | mg/kg | | 50 | n. d. |
| 鄰苯二甲酸二苯酯 / DPhP (Diphenyl phthalate) (CAS No.: 84-62-8) | mg/kg | | 50 | n. d. |

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|--|--------------|--|----------|----------------|
| | | | | No. 1 |
| 鹵素 / Halogen | | | | |
| 鹵素 (氟) / Halogen-Fluorine (F) (CAS No. : 14762-94-8) | mg/kg | 參考BS EN 14582 (2016), 以離子層析儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC. | 50 | n. d. |
| 鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No. : 22537-15-1) | mg/kg | | 50 | n. d. |
| 鹵素 (溴) / Halogen-Bromine (Br) (CAS No. : 10097-32-2) | mg/kg | | 50 | n. d. |
| 鹵素 (碘) / Halogen-Iodine (I) (CAS No. : 14362-44-8) | mg/kg | | 50 | n. d. |
| 全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | 參考CEN/TS 15968 (2010), 以液相層析/質譜儀檢測. / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS. | 0.01 | n. d. |
| 全氟辛酸 / PFOA (CAS No. : 335-67-1) | mg/kg | | 0.01 | n. d. |
| 三丁基錫 / Tributyl Tin (TBT) | mg/kg | 參考ISO 17353 (2004), 以氣相層析儀/火焰光度偵測器檢測. / With reference to ISO 17353 (2004). Analysis was performed by GC/FPD. | 0.03 | n. d. |
| 三苯基錫 / Triphenyl Tin (TphT) | mg/kg | | 0.03 | n. d. |
| 二丁基錫 / Dibutyl Tin (DBT) | mg/kg | | 0.03 | n. d. |
| 二辛基錫 / Dioctyl Tin (DOT) | mg/kg | | 0.03 | n. d. |
| 氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTO) (CAS No. : 56-35-9) | mg/kg | 參考ISO 17353 (2004), 以氣相層析儀/火焰光度偵測器檢測; 由三丁基錫測試結果計算得之. / With reference to ISO 17353 (2004). Analysis was performed by GC/FPD. Calculated from the result of Tributyl Tin (TBT). | 0.03 (▲) | n. d. |
| 富馬酸二甲酯 / Dimethyl Fumarate (CAS No. : 624-49-7) | mg/kg | 參考US EPA 3550C (2007), 以氣相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS. | 0.1 | n. d. |

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|--|--------------|---|-----|----------------|
| | | | | No. 1 |
| 偶氮 (AZO) | | | | |
| 1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No. : 92-67-1) | mg/kg | 參考LFGB 82.02-2 (2013), 以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2 (2013). Analysis was performed by GC/MS. | 3 | n. d. |
| 2): 聯苯胺 / BENZIDINE (CAS No. : 92- 87-5) | mg/kg | | 3 | n. d. |
| 3): 4-氯鄰甲苯胺 / 4-CHLORO-0- TOLUIDINE (CAS No. : 95-69-2) | mg/kg | | 3 | n. d. |
| 4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No. : 91-59-8) | mg/kg | | 3 | n. d. |
| 5): 鄰氨基二甲基偶氮 / 0- AMINOAZOTOLUENE (CAS No. : 97-56-3) | mg/kg | | 3 | n. d. |
| 6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No. : 99-55-8) | mg/kg | | 3 | n. d. |
| 7): 對氯苯胺 / P-CHLOROANILINE (CAS No. : 106-47-8) | mg/kg | | 3 | n. d. |
| 8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No. : 615-05-4) | mg/kg | | 3 | n. d. |
| 9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No. : 101-77-9) | mg/kg | | 3 | n. d. |
| 10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No. : 91-94-1) | mg/kg | | 3 | n. d. |
| 11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No. : 119-90-4) | mg/kg | | 3 | n. d. |
| 12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No. : 119-93-7) | mg/kg | | 3 | n. d. |

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|---|--------------|---|-------|----------------|
| | | | | No. 1 |
| 13): 3, 3'-二甲基-4, 4'-二氨基二苯甲烷 / 3, 3'-DIMETHYL-4, 4'-DIAMINODIPHENYLMETHANE (CAS No. : 838-88-0) | mg/kg | 參考LFGB 82.02-2 (2013), 以氣相層析/質譜儀檢測. / With reference to LFGB 82.02-2 (2013). Analysis was performed by GC/MS. | 3 | n. d. |
| 14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No. : 120-71-8) | mg/kg | | 3 | n. d. |
| 15): 4, 4'-亞甲基雙(氯苯胺) / 4, 4'-METHYLENE-BIS-(2-CHLOROANILINE) (CAS No. : 101-14-4) | mg/kg | | 3 | n. d. |
| 16): 4, 4'-氧化雙苯胺 / 4, 4'-OXYDIANILINE (CAS No. : 101-80-4) | mg/kg | | 3 | n. d. |
| 17): 4, 4'-硫代雙苯胺 / 4, 4'-THIODIANILINE (CAS No. : 139-65-1) | mg/kg | | 3 | n. d. |
| 18): 鄰甲苯胺 / O-TOLUIDINE (CAS No. : 95-53-4) | mg/kg | | 3 | n. d. |
| 19): 2, 4-二氨基甲苯 / 2, 4-TOLUYLENEDIAMINE (CAS No. : 95-80-7) | mg/kg | | 3 | n. d. |
| 20): 2, 4, 5-三甲基苯胺 / 2, 4, 5-TRIMETHYLANILINE (CAS No. : 137-17-7) | mg/kg | | 3 | n. d. |
| 21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No. : 90-04-0) | mg/kg | | 3 | n. d. |
| 22): 對氨基偶氮苯 / 4-AMINOAZOBENZENE (CAS No. : 60-09-3) | mg/kg | | 3 | n. d. |
| 23): 2, 4-二甲基苯胺 / 2, 4-XYLIDINE (CAS No. : 95-68-1) | mg/kg | 3 | n. d. | |
| 24): 2, 6-二甲基苯胺 / 2, 6-XYLIDINE (CAS No. : 87-62-7) | mg/kg | 3 | n. d. | |

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東協化工股份有限公司

TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

苗栗縣竹南鎮和興路346號

NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) |
|---|--------------|---|-----|----------------|
| | | | | No. 1 |
| 四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No. : 79-94-7) | mg/kg | 參考Global SOP RSTS-E&E-121 (2012), 以液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E-121 (2012). Analysis was performed by LC/MS. | 10 | n. d. |
| 四溴雙酚-A-雙 / TBBP-A-bis (CAS No. : 21850-44-2) | mg/kg | 參考US EPA 3550C (2007), 以氣相層析/質譜儀檢測. / With reference to US EPA 3550C (2007). Analysis was performed by GC/MS. | 5 | n. d. |
| 銻 / Antimony (Sb) | mg/kg | 參考US EPA 3052 (1996), 以感應耦合電漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES. | 2 | n. d. |
| 砷 / Arsenic (As) | mg/kg | 參考US EPA 3052 (1996), 以感應耦合電漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES. | 2 | n. d. |
| 鈹 / Beryllium (Be) | mg/kg | 參考US EPA 3052 (1996), 以感應耦合電漿發射光譜儀檢測. / With reference to US EPA 3052 (1996). Analysis was performed by ICP-OES. | 2 | n. d. |
| 紅磷 / Red phosphorus | ** | 以熱裂解-氣相層析/質譜儀分析. / Analysis was performed by Pyrolyzer-GC/MS. | - | Negative |
| 雙酚 A / Bisphenol A (CAS No. : 80-05-7) | mg/kg | 參考RSTS-CHEM-239-1 (2016), 以超高效能液相層析串聯質譜儀檢測. / With reference to RSTS-CHEM-239-1 (2016). Analysis was performed by UPLC-MSMS. | 1 | n. d. |

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NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

| 測試項目 (Test Items) | 單位 (Unit) | 測試方法 (Method) | MDL | 結果 (Result) |
|--|--------------|---|-------|----------------|
| | | | | No. 1 |
| 多環芳香烴 / Polycyclic Aromatic Hydrocarbons (PAHs) | | | | |
| 芴 / Acenaphthene (CAS No. : 83-32-9) | mg/kg | 參考AfPS GS 2014:01 PAK, 以氣相層析/質譜儀檢測。 / With reference to AfPS GS 2014:01 PAK. Analysis was performed by GC/MS. | 0.2 | n. d. |
| 芴烯 / Acenaphthylene (CAS No. : 208-96-8) | mg/kg | | 0.2 | n. d. |
| 蔥 / Anthracene (CAS No. : 120-12-7) | mg/kg | | 0.2 | n. d. |
| 苯駢蔥 / Benzo[a]anthracene (CAS No. : 56-55-3) | mg/kg | | 0.2 | n. d. |
| 苯駢(a)芘 / Benzo[a]pyrene (CAS No. : 50-32-8) | mg/kg | | 0.2 | n. d. |
| 苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No. : 205-99-2) | mg/kg | | 0.2 | n. d. |
| 苯駢芘 / Benzo[g, h, i]perylene (CAS No. : 191-24-2) | mg/kg | | 0.2 | n. d. |
| 苯駢(k)螢蔥 / Benzo[k]fluoranthene (CAS No. : 207-08-9) | mg/kg | | 0.2 | n. d. |
| Chrysene (CAS No. : 218-01-9) | mg/kg | | 0.2 | n. d. |
| 二苯駢蔥 / Dibenzo[a, h]anthracene (CAS No. : 53-70-3) | mg/kg | | 0.2 | n. d. |
| 苯駢芴 / Fluoranthene (CAS No. : 206-44-0) | mg/kg | | 0.2 | n. d. |
| 芴 / Fluorene (CAS No. : 86-73-7) | mg/kg | | 0.2 | n. d. |
| 茚酮芘 / Indeno[1, 2, 3-c, d] pyrene (CAS No. : 193-39-5) | mg/kg | | 0.2 | n. d. |
| 萘 / Naphthalene (CAS No. : 91-20-3) | mg/kg | | 0.2 | n. d. |
| 菲 / Phenanthrene (CAS No. : 85-01-8) | mg/kg | | 0.2 | n. d. |
| 芘 / Pyrene (CAS No. : 129-00-0) | mg/kg | | 0.2 | n. d. |
| 苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No. : 205-82-3) | mg/kg | | 0.2 | n. d. |
| 苯駢(e)芘 / Benzo[e]pyrene (CAS No. : 192-97-2) | mg/kg | | 0.2 | n. d. |
| 多環芳香烴18項總和 / Sum of 18 PAHs | mg/kg | - | n. d. | |

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TONG HSIEH CHEMICAL INDUSTRIAL CO., LTD.

苗栗縣竹南鎮和興路346號

NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n. d. = Not Detected (未檢出)
4. "-" = Not Regulated (無規格值)
5. **= Qualitative analysis (No Unit) 定性分析(無單位)
6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
7. (▲) : MDL是針對元素/測試化合物之評估. / The MDL was evaluated for element / tested substance.
換算公式 (Conversion Formula) : $AX = A \times F$

| AX | A | F |
|--|---------------------------|-------|
| 氧化雙三丁基錫 / Bis(tributyltin)oxide (TBTO) | 三丁基錫 / Tributyl Tin (TBT) | 1.024 |

8. 參數換算表 / Parameter Conversion Table : http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 2019/1021

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

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△ 德國產品安全委員會(AfPS) GS PAHs 要求 /

AfPS (German commission for Product Safety): GS PAHs requirements

| 項目 (Parameter) | 第1類(Category 1) | 第2類(Category 2) | | 第3類(Category 3) | |
|------------------------------|---|--|--|---|--|
| | 意圖放入嘴內的材料或玩具會與皮膚有所接觸(超過30秒). (Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).) | 不屬於第1類的材料並可預見與皮膚接觸逾30秒(長期或經常與皮膚接觸). (Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin or frequent contact).) | | 可預見與皮膚接觸短於30秒(短期與皮膚接觸), 以及不屬於第1類或第2類的材料. (Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).) | |
| | | 列於2009/48/EC之玩具 (Toy under 2009/48/EC) | 列於德國產品安全法之其他產品 (Other products under ProdSG) | 列於2009/48/EC之玩具 (Toy under 2009/48/EC) | 列於德國產品安全法之其他產品 (Other products under ProdSG) |
| Naphthalene | < 1 | < 2 | | < 10 | |
| Acenaphthylene | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Acenaphthene | | | | | |
| Fluorene | | | | | |
| Phenanthrene | | | | | |
| Anthracene | | | | | |
| Fluoranthene | | | | | |
| Pyrene | | | | | |
| Benzo[a]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Chrysene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[b]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[j]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[k]fluoranthene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[a]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[e]pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Indeno[1, 2, 3-c, d] pyrene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Dibenzo[a, h]anthracene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| Benzo[g, h, i]perylene | < 0.2 | < 0.2 | < 0.5 | < 0.5 | < 1 |
| 18項PAH總濃度 (Sum of 18 PAH) | < 1 | < 5 | < 10 | < 20 | < 50 |

單位(Unit) : mg/kg

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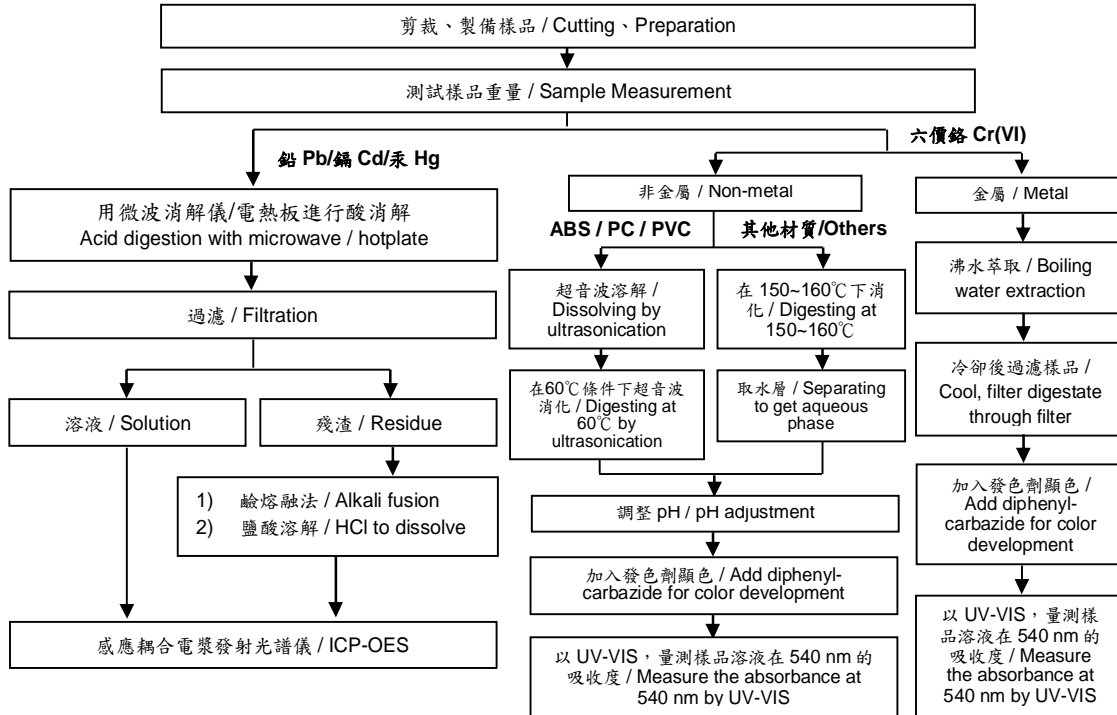
NO. 346 HO-HSING ROAD, CHUNAN IND. PARK, CHUNAN, MIAO-LI HSIEN, TAIWAN 35048 R. O. C.

重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：陳思臻 / Technician : Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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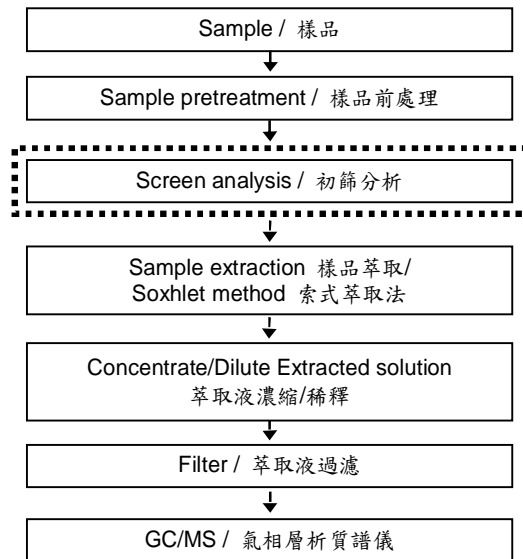
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process —————>

選擇性篩檢程序 / Optional screen process>

確認程序 / Confirmation process - - ->



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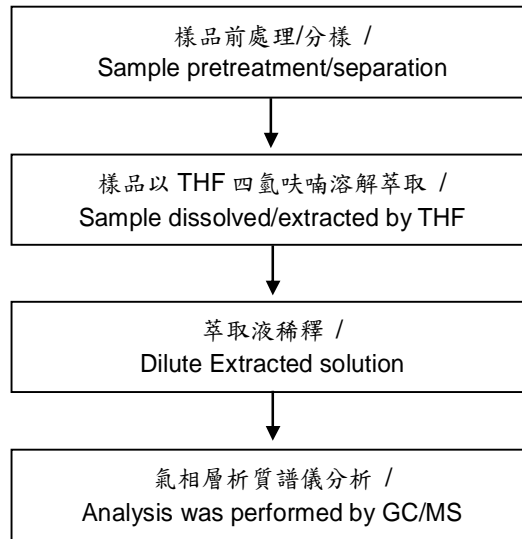
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor : Troy Chang

【測試方法/Test method: IEC 62321-8】



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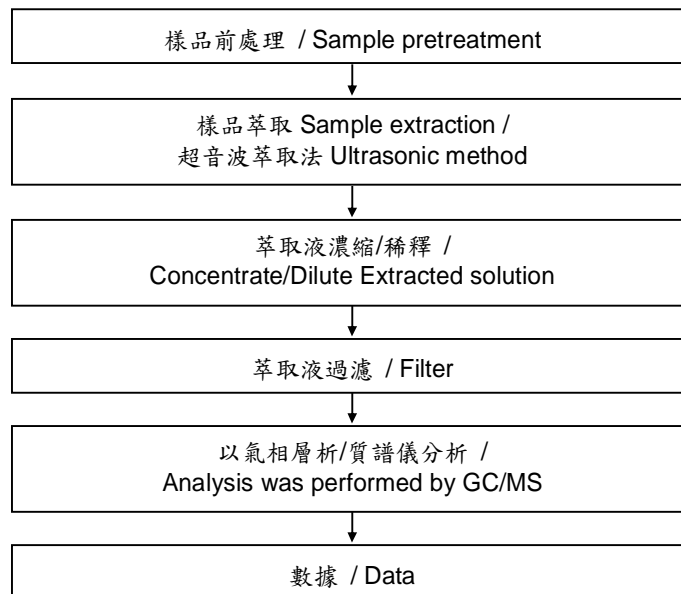
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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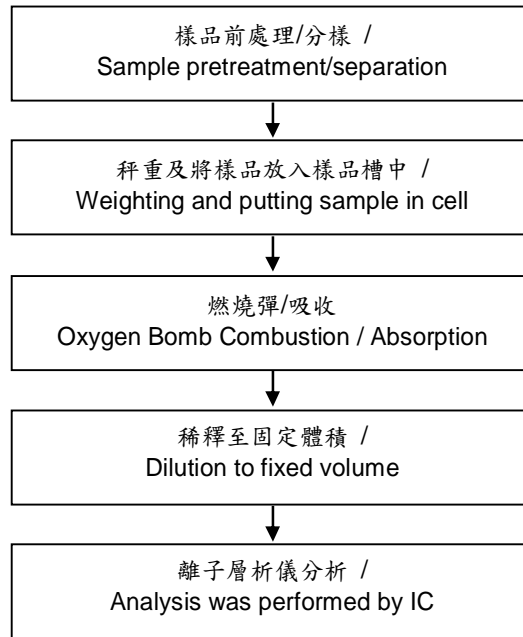
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鹵素分析流程圖 / Analytical flow chart - Halogen

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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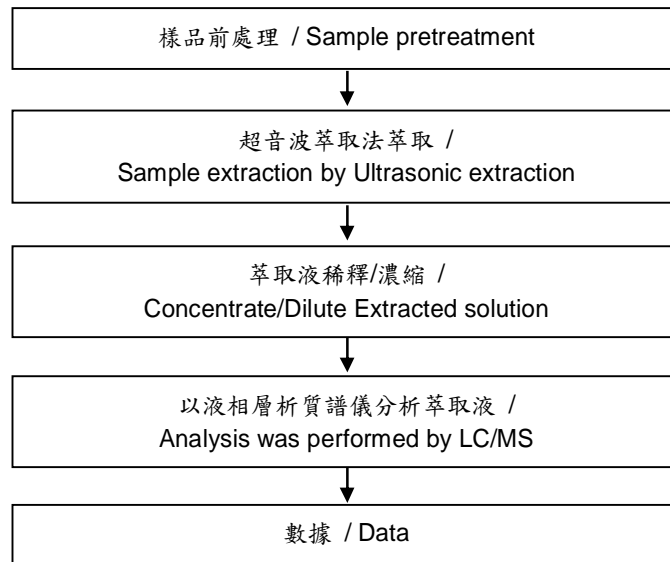
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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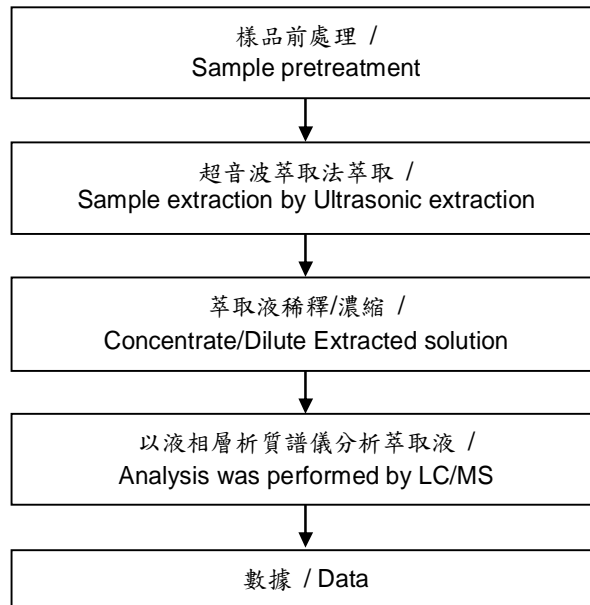
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四溴雙酚-A 分析流程圖 / Analytical flow chart - TBBP-A

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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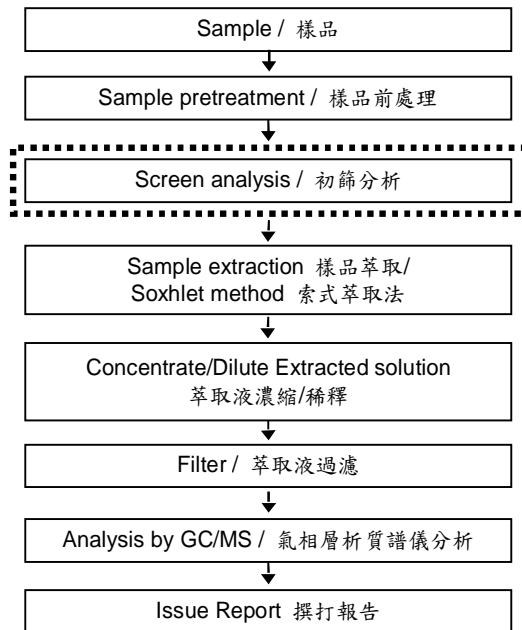
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四溴雙酚-A-雙分析流程圖 / Analytical flow chart - TBBP-A-bis

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process —————>
 選擇性篩檢程序 / Optional screen process>
 確認程序 / Confirmation process - . - .>



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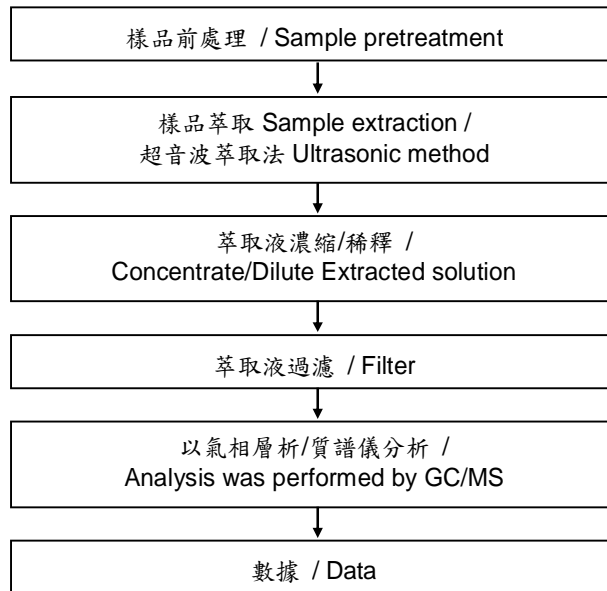
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富馬酸二甲酯分析流程圖 / Analytical flow chart - Dimethyl Fumarate

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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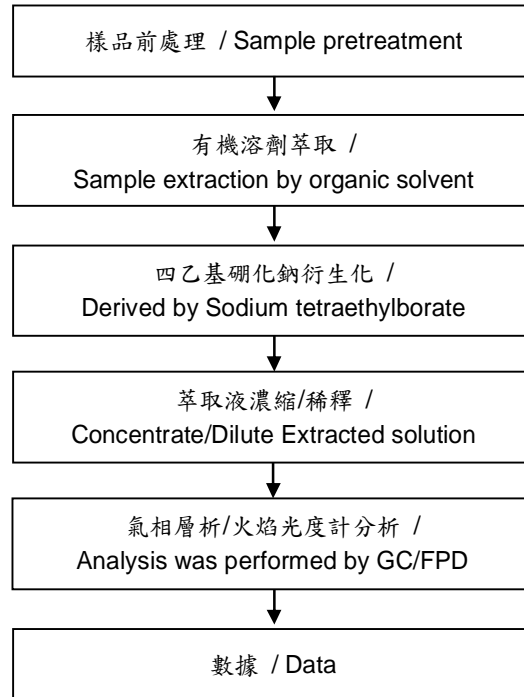
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有機錫分析流程圖 / Analytical flow chart - Organic-Tin

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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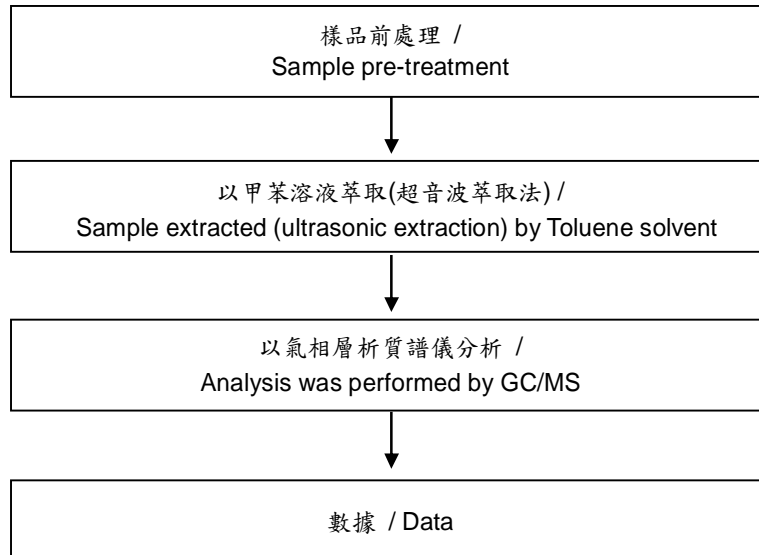
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多環芳香烴分析流程圖 /

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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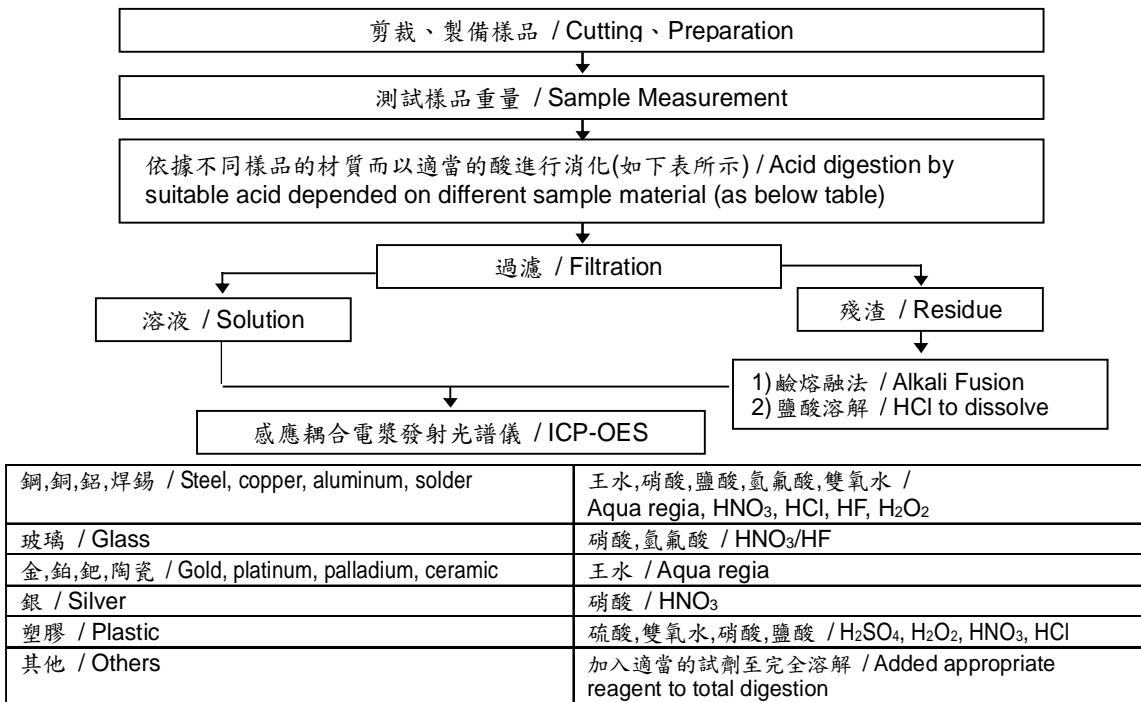
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根據以下的流程圖之條件，樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang

元素以 ICP-OES 分析的消化流程圖
(Flow Chart of digestion for the elements analysis performed by ICP-OES)



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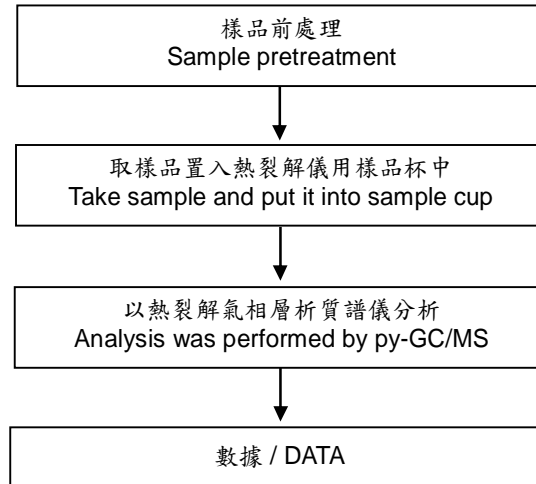
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紅磷分析流程 / Analytical flow chart - Red phosphorus

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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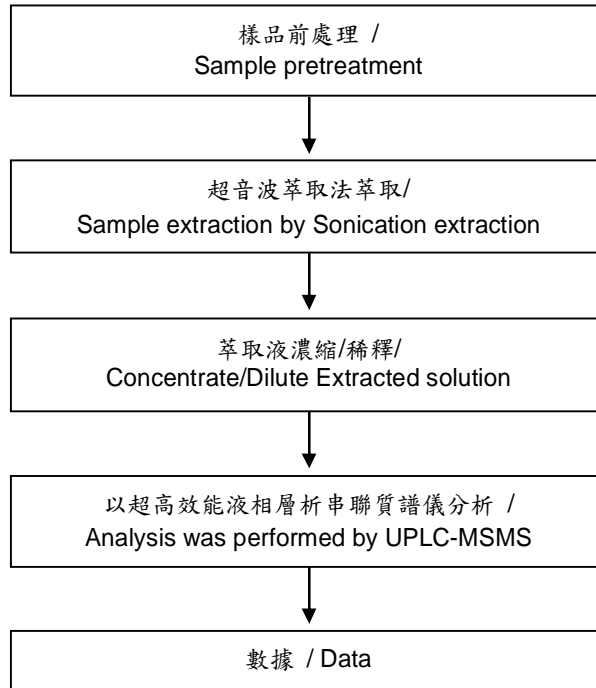
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雙酚A分析流程圖 / Analytical flow chart - Bisphenol A

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。 *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2019/90763



** 報告結尾 (End of Report) **