# 陞曜國際企業有限公司

## 產品規格書

## (P/N: 3MDL4XLB900 )(M3501)

## Files No: SY1131101004

## Material: HAL#3

設計驗證
工程課
2024-11-22
發行
鉅鑽科技開發股份有限公司


Sumyao International Enterprise Co., LTD.

SUM YAO International Enterprise Co., LTD.

聯絡人：高左宇

TEL: 02-8693-2883

Fax : 02-8693-2993

# APPROVAL SHEET

File No.：**SY1131101004**

| Customer: | 鈺緯科技發展股份有限公司 | Part No.: | 3MDL4XLB900 (M3501) |
|---|---|---|---|
| Description | 高黏銅板紙23mm*11mm | Material Code | HAL#3 |

型　號(CODE)：HAL#3

品　名(PRODUCT NAME)：　自動貼標用銅版高黏商標紙

ART PAPER HIGH ADHESION LABEL FOR AUTO-STICKING

產品架構(PRODUCT CONSTRUCTION)




| 面　材　SURFACE　MATERIAL | | 感　壓　膠　PRESSURE SENSITIVE ADHESIVE | |
|---|---|---|---|
| 材料名稱<br>ARTICLE NAME | 銅板紙<br>ART PAPER | 膠　系<br>ADHESIVE BASE | 壓克力系<br>ACRYLIC |
| 厚　度　mm<br>THICKNESS | 0.071± 0.005 | 上　膠　厚　度　mm<br>COATING THICKNESS | 0.023±0.002 |
| 基　重　g/m²<br>BASIC WEIGHT | 80± 4 | 上　膠　量　g/m²<br>COATING WEIGHT | 25 ± 2 |
| 顏　色<br>COLOR | 白色 WHITE | 黏　著　力 kg/25mm<br>∠180°PEEL ADHESION | 1.6 ↑ |
| 底　材　LINER | | 剝　離　力　g/25mm<br>RELEASE FORCE | 4 ~ 8 |
| 材料名稱<br>ARTICLE NAME | 格拉辛離型紙<br>GLASSINE RELEASE PAPER | 保持力 hr/Kgx25mm²<br>HOLDING POWER | 8 ↑ |
| 厚　度　mm<br>THICKNESS | 0.052± 0.004 | | |
| 基　重　g/m²<br>BASIC WEIGHT | 60 ± 4 | 適　用　溫　度　℃<br>TEMPERATURE RANGE | －40 ～ 80 |
| 顏　色<br>COLOR | 白色　WHITE | 適　貼　溫　度　℃<br>TEMPERATURE RANGE | 10 ～ 40 |
| 保　存　期　限<br>STOCK PERIOD | 1 年<br>ONE YEAR | 保　存　環　境<br>STOCK ENVIRONMENT | 通風、乾燥、避免日光<br>25℃ x60％ RH↓ IN A COOL、DRY PLACE |

備　　註：以上技術資料為本公司採用公認可靠的檢驗方法所得平均數值。但為確保正確選擇與使用本公司產品，請您先針對使用條件與目的進行詳細瞭解與試用，或與我們聯繫以為您提供進一步說明與服務。

REMARK：THE TECHNICAL DATA ARE BASED ON THE RELIABLE EXPERIMENT METHOD BY THE COMPANY. IN ORDER TO USE SUITABLE LABEL, PLEASE COMPLETELY UNDERSTAND ABOUT YOUR CONDITION AND PURPOSE, OR CONTACT US TO PROVIDE FURTHER SERVICE.

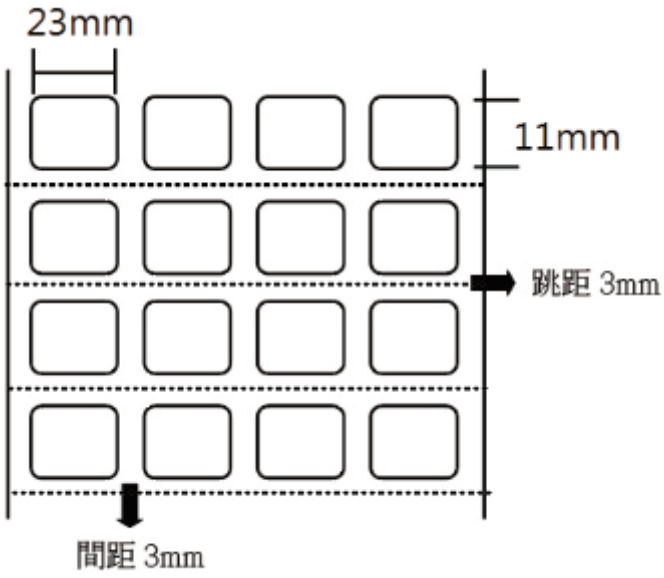



制訂日期　2020/2/10　版本 1.1 版

**1. Label Description**

- Label Size：23mm(W) (+0.2/-0..2mm)*11mm(L) (+0.2/-0.2mm) R=1
- Color Printed：Blank
- P/N： 3MDL4XLB900(M3501)

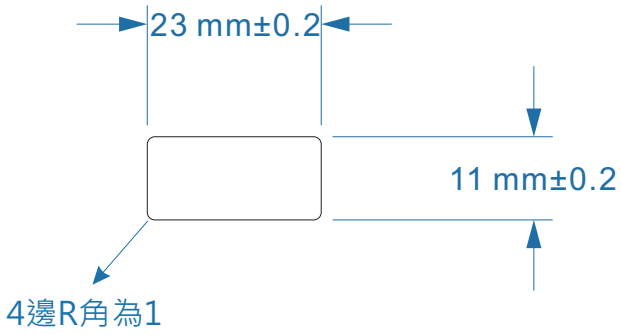
**2. Drawing**




**Remark**

| Customer Approval By | Customer Check By | SumYao Check By | SumYao List By |
|---|---|---|---|
| | | 高左宇 | 陳妙真 |

| REV. | DATE | DESCRIPTION | BY | APVD |
|---|---|---|---|---|




**Notes:**
1.Material: Coated paper, Highly sticky adhesive.
2.Color: White.

設計驗證
工程課
2024 -11- 22
發行
鈺緯科技開發股份有限公司

| | | | | | |
|---|---|---|---|---|---|
| SALES | THIRD ANGLE PROJECTION | UNITS:mm | SCALE : 1 / 1 | SHEET: 1 / 1 | MODEL NO.: 3MDL4XLB900 |
| | | MATERIAL: See notes | | TREATMENT: See notes | |
| PE / PCD | DSGD by COCO | 2024/11/05 | PART NAME: OTHERLABEL(#23*11mm,BLANK) | | |
| | APVD by Lydia | 2024/11/05 | PART NO.: 3MDL4XLB900 | | VER. 0 |
| | APVD No.: (M3501) | FILE NAME: 3MDL4XLB900.cdr | DIVA Laboratories,Ltd. | | |

Reference No. VoC-RoHS: TW/2400098/VoC



Issue Date: 2024-01-18

# VERIFICATION OF CONFORMITY for SGS RoHS REQUIREMENTS

| | | |
|---|---|---|
| **Product** | : | ART PAPER LABEL (銅版紙商標紙) |
| **Test requested by** | : | Yi Hao Precision Co., Ltd. |
| **Name and address of the manufacturer** | : | Yi Hao Precision Co., Ltd.<br>No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan |
| **Name and address of the factory** | : | Yi Hao Precision Co., Ltd.<br>No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan |
| **Trademark** | : | N/A |
| **Model/ Identification** | : | GHAL, GHAL(90), KHAL(90), AL, (H)AL(C)#2, HAL(90)(91)#2,(H)AL(90)(91)#3, (H)AL08, AL#33, (J)ALH, ALW(#2), AL(160)(W)(#2R), ALW162, AL160#3R, AL160H#77, ALW160(#2R), ALBW(#2R), ALW160#6R, AL160HW#6R, ALW75(#6R),HAL90#5R,AL2308, AL250(H)(W)#6R,R2ALW160,AL250W, ALW(250)(251), ALT(75)(100), ALY#2, ALW07#1,ALL#G,HALL(#2), (H)AL(90)#6R, HAL9008,HAL(90)#77,HAL#27, RAM160(#2R),(R)(H)AL(C)(90)#2R, (H)AL(90)#3R, HAL2590,HAL-2,HAL(2)(#B), HAL(T)902, HAL160, RHAL(#2R),ALSG,RALM160(#2R), RAL160M160, R2ALW160, R2AL250T75, RHAL(#2R), RHAL90#5, SALB(W), (R2)(R3)ALT75, YHC-AW(#2)(#3)(#33)(#2R), YHC-H8A6(#2)(#3)(#2R), YHC-AW3, YHC-HA(#2)(#3)(#2R)(#5R)(#6R), YHC-HA6(#2)(#3)(#2R), YHC-H8A(#2)(#3)(#H)(#2R)(#52)(#5R)(#2755)(#B), |

This Verification of Conformity is based on analysis of the product, component or material and verifying the documentation being in accordance with the provisions of the SGS RoHS Certification Rules on the restriction of the use of certain hazardous substances in electrical and electronic equipment. It does not imply an assessment of the production. No amounts above the limits of these substances have been detected or if so, specific exemptions are applicable. This result relates only to the item(s) tested.

## Authorized Signatory

Yvonne WU
Project Manager
SGS

Attention: To check the authenticity/inspection report & certificate, please contact us at telephone: (886)222993279#3000, or email: rsts.tw@sgs.com

This verification is issued by the company under its General Conditions of Services accessible at https://www.sgs.com/en/terms-and-conditions. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this verification. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Member of the SGS Group (SGS SA)

| | | |
|---|---|---|
| | | YHC-RAW#2 |
| **Conclusion** | : | The assessed sample made available complies with the limits of Pb, Hg, Cd, Cr (VI), PBBs, PBDEs, DEHP, BBP, DBP, DIBP as set by SGS RoHS Certification Rules. |
| **Sufficient samples of the product have been analysed according to the following scope** | : | Pb, Hg, Cd, Cr (VI), PBBs, PBDEs, DEHP, BBP, DBP, DIBP according to standard IEC 62321-4: 2013+AMD1: 2017, IEC 62321-5: 2013, IEC 62321-6: 2015, IEC 62321-7-2: 2017, IEC 62321-8: 2017. |
| **As shown in the report** | : | ETR24101079 |
| **Date of expiry** | : | 2025-01-18 |

Attention: To check the authenticity/inspection report & certificate, please contact us at telephone: (886)222993279#3000, or email: rsts.tw@sgs.com

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Member of the SGS Group (SGS SA)

# 測試報告
# Test Report

號碼(No.): ETR24101079　　日期(Date): 18-Jan-2024　　

奕郝精密股份有限公司 (Yi Hao Precision Co., Ltd.)
南投市南崗工業區成功三路216號 (No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan)

**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 the applicant as)：**

| | | |
|---|---|---|
| 送樣廠商(Sample Submitted By) | : | 奕郝精密股份有限公司 (Yi Hao Precision Co., Ltd.) |
| 樣品名稱(Sample Name) | : | ART PAPER LABEL (銅版紙商標紙) |
| 樣品型號(Style/Item No.) | : | 請參考第2頁 (PLEASE REFER TO PAGE 2) |

==========

| | | |
|---|---|---|
| 收件日(Sample Receiving Date) | : | 04-Jan-2024 |
| 測試期間(Testing Period) | : | 04-Jan-2024 to 18-Jan-2024 |

**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.)

**結　　論(Conclusion)** :
(1) 根據客戶所選擇的部位測試，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚, DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。 (Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

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

CHECK REPORT
PIN CODE: 8B0BC1AF

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# 測試報告
# Test Report



奕郝精密股份有限公司 (Yi Hao Precision Co., Ltd.)
南投市南崗工業區成功三路216號 (No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan)

樣品型號(Style/Item No.) :

GHAL, GHAL(90), KHAL(90), AL, (H)AL(C)#2,HAL(90)(91)#2,(H)AL(90)(91)#3, (H)AL08, AL#33, (J)ALH, ALW(#2), AL(160)(W)(#2R), ALW162, AL160#3R, AL160H#77, ALW160(#2R), ALBW(#2R), ALW160#6R, AL160HW#6R, ALW75(#6R),HAL90#5R,AL2308, AL250(H)(W)#6R,R2ALW160, AL250W, ALW(250)(251), ALT(75)(100), ALY#2, ALW07#1, ALL#G,HALL(#2),(H)AL(90)#6R, HAL9008,HAL(90)#77,HAL#27,RAM160(#2R),(R)(H)AL(C)(90)#2R, (H)AL(90)#3R,HAL2590, HAL-2,HAL(2)(#B), HAL(T)902, HAL160,RHAL(#2R),ALSG,RALM160(#2R), RAL160M160, R2ALW160, R2AL250T75, RHAL(#2R), RHAL90#5, SALB(W), (R2)(R3)ALT75, YHC-AW(#2)(#3)(#33)(#2R), YHC-H8A6(#2)(#3)(#2R), YHC-AW3, YHC-HA(#2)(#3)(#2R)(#5R)(#6R), YHC-HA6(#2)(#3)(#2R), YHC-H8A(#2)(#3)(#H)(#2R)(#52)(#5R)(#2755)(#B), YHC-RAW#2

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# 測試報告
# Test Report



奕郝精密股份有限公司 (Yi Hao Precision Co., Ltd.)
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**測試部位敘述 (Test Part Description)**

No.1 : 白色貼紙(不含離型紙) (WHITE LABEL (EXCLUDING THE RELEASE PAPER))

**測試結果 (Test Results)**

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) | 限值 (Limit) |
|---|---|---|---|---|---|
| | | | | No.1 | |
| 鎘 (Cd) (Cadmium (Cd)) | 參考IEC 62321-5: 2013，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 100 |
| 鉛 (Pb) (Lead (Pb)) | | mg/kg | 2 | n.d. | 1000 |
| 汞 (Hg) (Mercury (Hg)) | 參考IEC 62321-4: 2013+ AMD1: 2017，以感應耦合電漿發射光譜儀分析。(With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 1000 |
| 六價鉻 Cr(VI) (Hexavalent Chromium Cr(VI)) | 參考IEC 62321-7-2: 2017，以紫外光-可見光分光光度計分析。(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.) | mg/kg | 8 | n.d. | 1000 |
| 一溴聯苯 (Monobromobiphenyl) | 參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | 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. | - |
| **多溴聯苯總和 (Sum of PBBs)** | | mg/kg | - | n.d. | 1000 |

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# 測試報告
# Test Report



奕郝精密股份有限公司 (Yi Hao Precision Co., Ltd.)
南投市南崗工業區成功三路216號 (No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan)

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) No.1 | 限值 (Limit) |
|---|---|---|---|---|---|
| 一溴聯苯醚 (Monobromodiphenyl ether) | 參考IEC 62321-6: 2015，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | 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. | - |
| **多溴聯苯醚總和 (Sum of PBDEs)** | | mg/kg | - | n.d. | 1000 |
| 鄰苯二甲酸丁苯甲酯 (BBP) (Butyl benzyl phthalate (BBP)) | 參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二丁酯 (DBP) (Dibutyl phthalate (DBP)) | | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二(2-乙基己基)酯 (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP)) | | mg/kg | 50 | n.d. | 1000 |
| 鄰苯二甲酸二異丁酯 (DIBP) (Diisobutyl phthalate (DIBP)) | | mg/kg | 50 | n.d. | 1000 |
| 全氟辛烷磺酸及其鹽類 (PFOS and its salts) (CAS No.: 1763-23-1 and its salts) | 參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | - |
| 全氟辛酸及其鹽類 (PFOA and its salts) (CAS No.: 335-67-1 and its salts) | 參考CEN/TS 15968: 2010，以液相層析串聯質譜儀分析。(With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.) | mg/kg | 0.01 | n.d. | - |
| 氟 (F) (Fluorine (F)) (CAS No.: 14762-94-8) | 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.) | mg/kg | 50 | n.d. | - |
| 氯 (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1) | | mg/kg | 50 | 168 | - |
| 溴 (Br) (Bromine (Br)) (CAS No.: 10097-32-2) | | mg/kg | 50 | n.d. | - |
| 碘 (I) (Iodine (I)) (CAS No.: 14362-44-8) | | mg/kg | 50 | n.d. | - |

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# 測試報告
# Test Report



奕郝精密股份有限公司 (Yi Hao Precision Co., Ltd.)
南投市南崗工業區成功三路216號 (No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan)

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) No.1 | 限值 (Limit) |
|---|---|---|---|---|---|
| 六溴環十二烷及所有主要被辨別出的異構物 (HBCDD) (α- HBCDD, β- HBCDD, γ- HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)) | 參考IEC 62321-9: 2021，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.) | mg/kg | 20 | n.d. | - |
| 聚氯乙烯 (Polyvinyl chloride) (PVC) | 參考ASTM E1252: 2021，以傅立葉轉換紅外線光譜儀及焰色法分析。(With reference to ASTM E1252: 2021, analysis was performed by FT-IR and Flame Test.) | ** | - | Negative | - |
| 雙酚A (Bisphenol A) (CAS No.: 80-05-7) | 參考RSTS-CHEM-239-1，以液相層析串聯質譜儀分析。(With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.) | mg/kg | 1 | n.d. | - |
| 溶出硒 (Soluble Selenium) (Se) (CAS No.: 7782-49-2) | 參考ASTM F963-17 Clause 8.3，以感應耦合電漿發射光譜儀分析。(With reference to ASTM F963-17 Clause 8.3, analysis was performed by ICP-OES.) | mg/kg | 5 | n.d. | - |
| 溶出銻 (Soluble Antimony) (Sb) (CAS No.: 7440-36-0) | | mg/kg | 5 | n.d. | - |
| 溶出鉛 (Soluble Lead) (Pb) (CAS No.: 7439-92-1) | | mg/kg | 5 | n.d. | - |
| 溶出汞 (Soluble Mercury) (Hg) (CAS No.: 7439-97-6) | | mg/kg | 5 | n.d. | - |
| 溶出鉻 (Soluble Chromium) (Cr) (CAS No.: 7440-47-3) | | mg/kg | 5 | n.d. | - |
| 溶出鎘 (Soluble Cadmium) (Cd) (CAS No.: 7440-43-9) | | mg/kg | 5 | n.d. | - |
| 溶出鋇 (Soluble Barium) (Ba) (CAS No.: 7440-39-3) | | mg/kg | 10 | n.d. | - |
| 溶出砷 (Soluble Arsenic) (As) (CAS No.: 7440-38-2) | | mg/kg | 2.5 | n.d. | - |

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# 測試報告
# Test Report



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南投市南崗工業區成功三路216號 (No. 216, Chengkung 3rd ., Nankang Ind Park, Nantou 540, Taiwan)

| 測試項目 (Test Items) | 測試方法 (Method) | 單位 (Unit) | MDL | 結果 (Result) No.1 | 限值 (Limit) |
|---|---|---|---|---|---|
| 鄰苯二甲酸二異癸酯 (DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1) | 參考IEC 62321-8: 2017，以氣相層析儀/質譜儀分析。(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.) | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二異壬酯 (DINP) (Diisononyl phthalate (DINP)) (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 (DNOP)) (CAS No.: 117-84-0) | | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二正己酯 (DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3) | | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸二正庚酯 (Di-n-heptyl phthalate) (CAS No.: 3648-21-3) | | mg/kg | 50 | n.d. | - |
| 鄰苯二甲酸雙(2-甲氧基乙基)酯 (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8) | | mg/kg | 50 | n.d. | - |
| 壬基苯酚聚氧乙烯醚 (NPEO) (Nonyl phenol ethoxylates (NPEO)) | 參考US EPA 3550C: 2007，以液相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by LC/MS.) | mg/kg | 5 | 141 | - |
| 辛基苯酚聚氧乙烯醚 (OPEO) (Octyl phenol ethoxylates (OPEO)) | 參考US EPA 3550C: 2007，以液相層析儀/質譜儀分析。(With reference to US EPA 3550C: 2007, analysis was performed by LC/MS.) | mg/kg | 5 | n.d. | - |

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# Test Report



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**備註(Note)：**

1. mg/kg = ppm；0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出) ; 小於MDL / Less than MDL
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. 除非另有說明，參照ILAC-G8:09/2019，採用簡單二元(w=0)允收規則進行符合性判定；根據此規則，符合性結果之判定係以測試結果與限值做比較。(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. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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**PFAS Remark：**

現有PFAS定量技術是分析PFAS物質的特定結構，但同碳數族群之PFAS酸及鹽類物質，其可被辨識的特定結構相同，因此無法區別所分析的特定結構是來自酸或者鹽類，故測試結果為同碳數族群之PFAS之酸及鹽類物質的濃度總合。下表PFAS物質濃度皆已包含在測試結果中，相關資訊請參見下表：(下表列舉PFAS物質僅為範例，並不包含所有同碳數族群之PFAS鹽類。)
(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

| 群組名稱 (Group Name) | 物質名稱 (Substance Name) | CAS No. |
|---|---|---|
| PFOS, 及其鹽&衍生物 (PFOS, its salts & derivatives) | 全氟辛烷磺酸 (Perfluorooctane sulfonates) (PFOS) | 1763-23-1 |
| | 全氟辛基磺酸鉀 (PFOS-K)<br>Potassium perfluorooctanesulfonate (PFOS-K) | 2795-39-3 |
| | 全氟辛基磺酸鋰 (PFOS-Li)<br>Perfluorooctanesulfonic acid, lithium salt (PFOS-Li) | 29457-72-5 |
| | 全氟辛基磺酸銨 (PFOS-$NH_4$)<br>Perfluorooctanesulfonic acid, ammonium salt (PFOS-$NH_4$) | 29081-56-9 |
| | 全氟辛基磺酸二乙醇銨 (PFOS-$NH(OH)_2$)<br>Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$) | 70225-14-8 |
| | 全氟辛基磺酸四乙基銨 (PFOS-$N(C_2H_5)_4$)<br>Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$) | 56773-42-3 |
| | 全氟辛基磺酸二癸二甲基銨 (PFOS-DDA)<br>N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA) | 251099-16-8 |
| | 全氟辛基磺醯氟 (POSF)<br>Perfluorooctane sulfonyl fluoride (POSF) | 307-35-7 |
| | 全氟辛基磺酸鎂 (PFOS-Mg)<br>Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg) | 91036-71-4 |
| | 全氟辛基磺酸鈉 (PFOS-Na)<br>Perfluorooctanesulfonic acid, sodium salt (PFOS-Na) | 4021-47-0 |
| | 全氟辛烷磺酸哌啶<br>Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate | 71463-74-6 |

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| 群組名稱 (Group Name) | 物質名稱 (Substance Name) | CAS No. |
|---|---|---|
| PFOA, 及其鹽&衍生物 (PFOA, its salts & derivatives) | 全氟辛酸 (Perfluorooctanoic acid) (PFOA) | 335-67-1 |
| | 全氟辛酸鈉 (PFOA-Na)<br>Sodium perfluorooctanoate (PFOA-Na) | 335-95-5 |
| | 全氟辛酸鉀 (PFOA-K)<br>Potassium perfluorooctanoate (PFOA-K) | 2395-00-8 |
| | 全氟辛酸銀 (PFOA-Ag)<br>Silver perfluorooctanote (PFOA-Ag) | 335-93-3 |
| | 全氟辛氟 (PFOA-F)<br>Perfluorooctanoyl fluoride (PFOA-F) | 335-66-0 |
| | 全氟辛酸銨 (APFO)<br>Ammonium pentadecafluorooctanoate (APFO) | 3825-26-1 |
| | 全氟辛酸鋰 (PFOA-Li)<br>Lithium perfluorooctanoate (PFOA-Li) | 17125-58-5 |

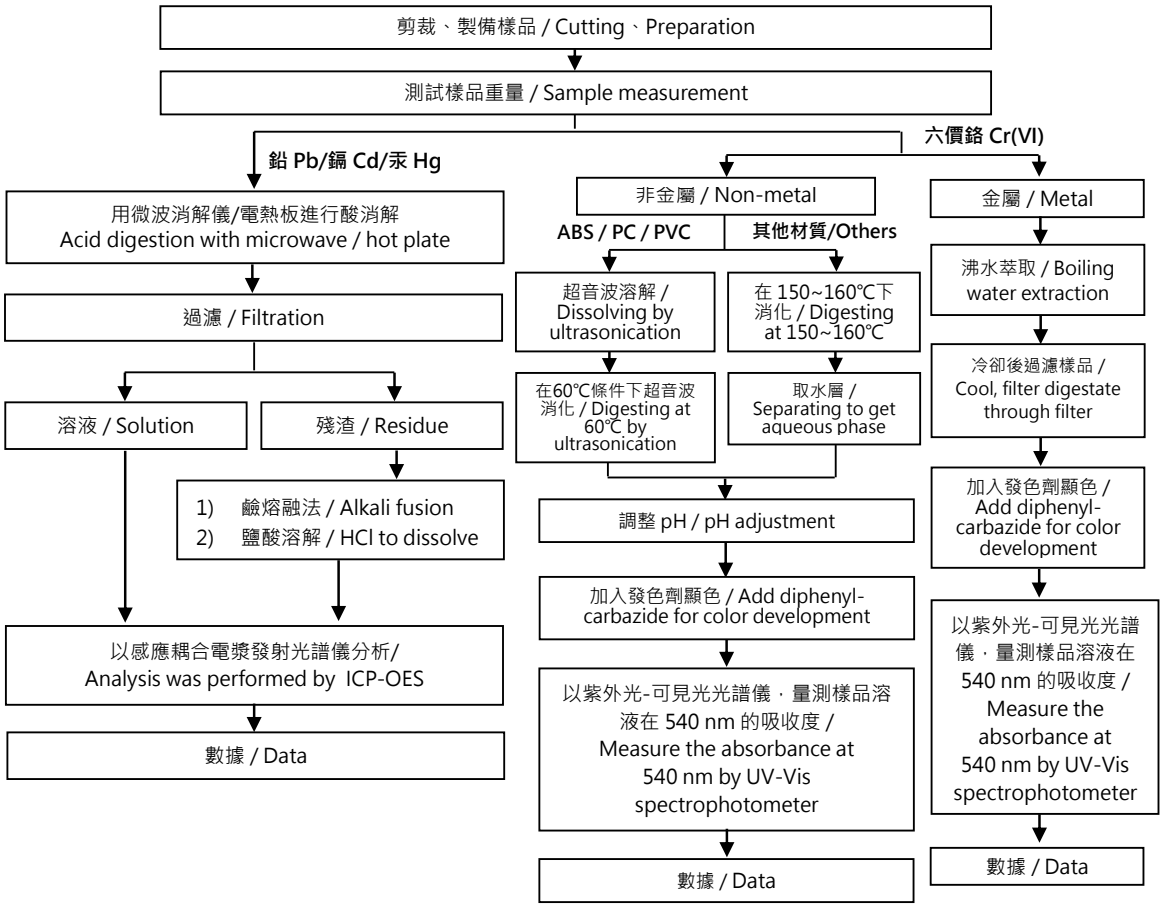
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**重金屬流程圖 / Analytical flow chart of heavy metal**

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.
（$Cr^{6+}$ test method excluded）

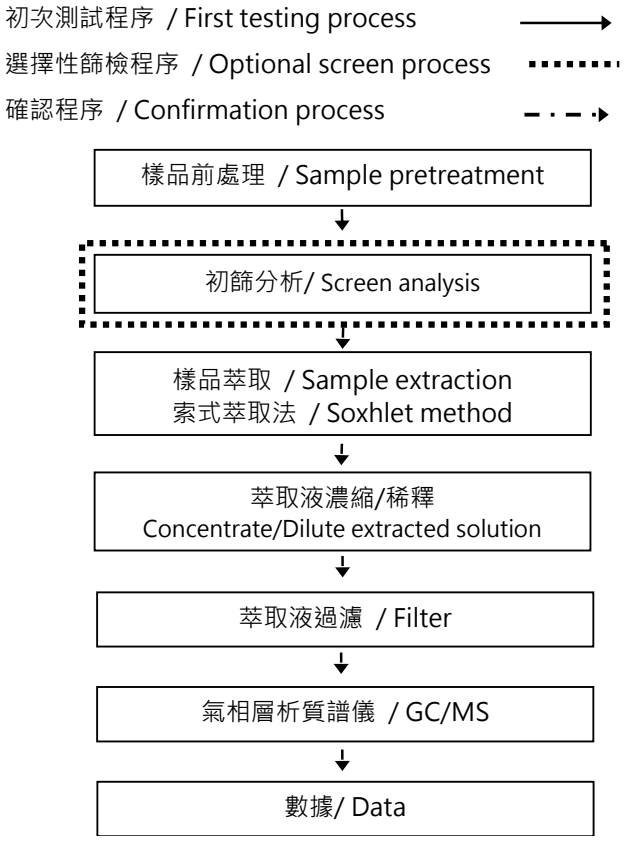




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**多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBBs/PBDEs**

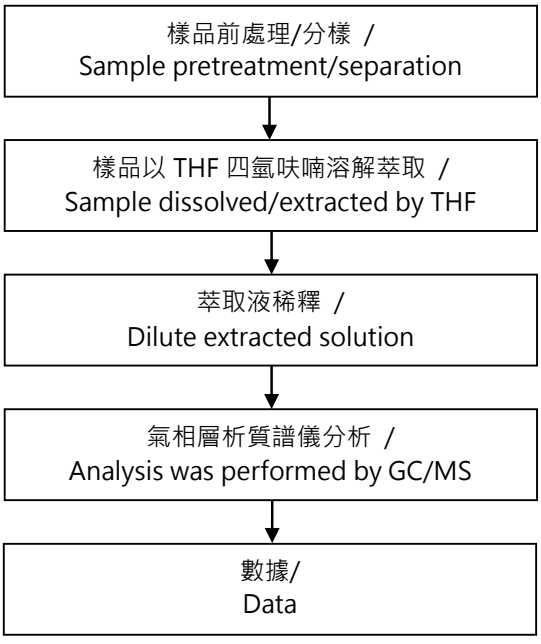



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**可塑劑分析流程圖 / Analytical flow chart - Phthalate**

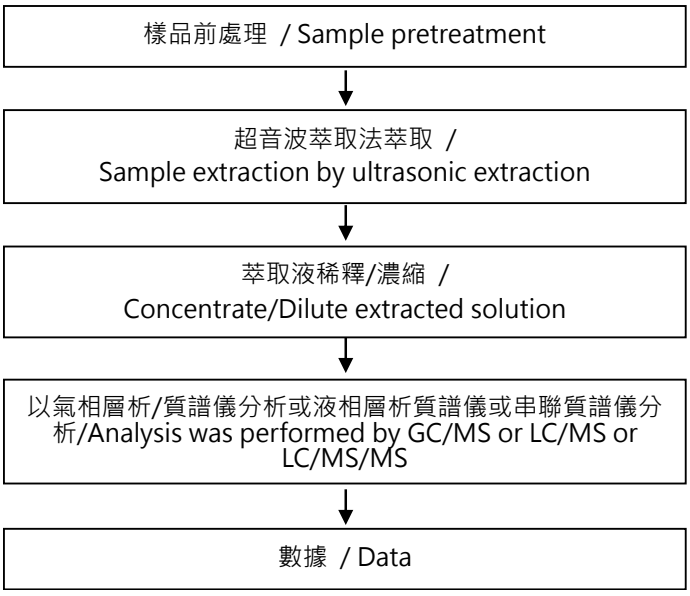
**【測試方法/Test method: IEC 62321-8】**




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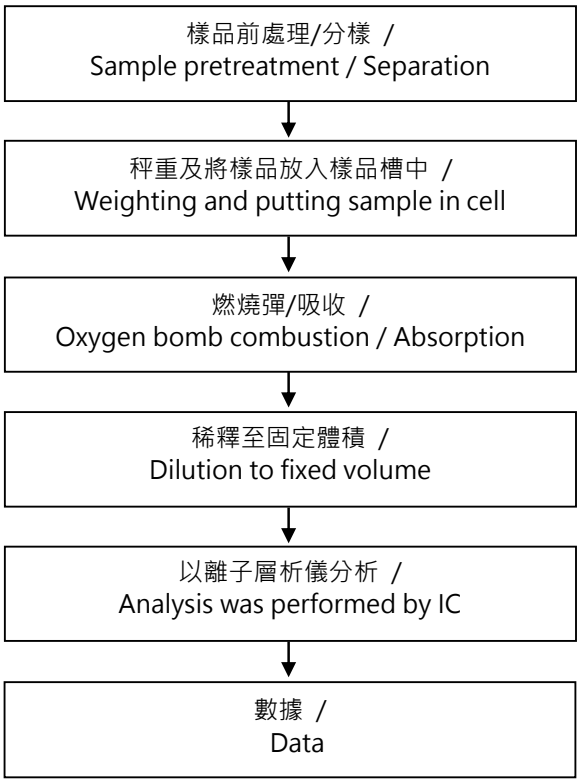
**全氟化合物(包含全氟辛酸/全氟辛烷磺酸/其相關化合物等等)分析流程圖 / Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)**




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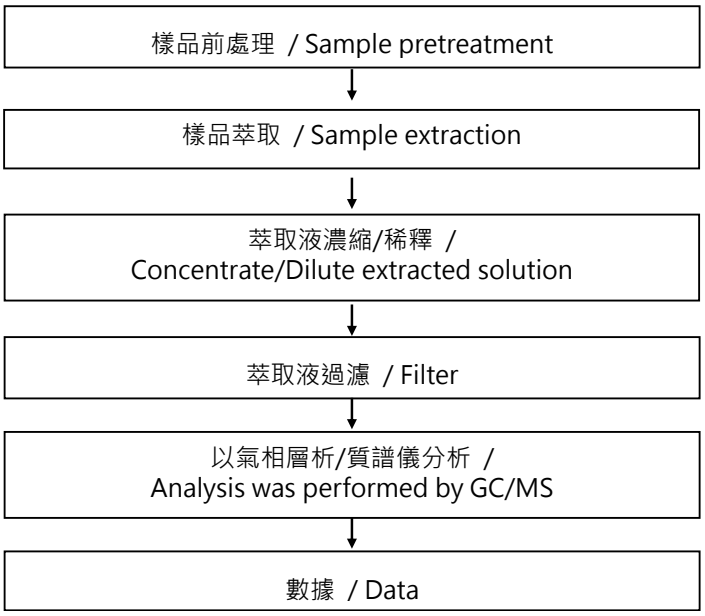
**鹵素分析流程圖 / Analytical flow chart - Halogen**




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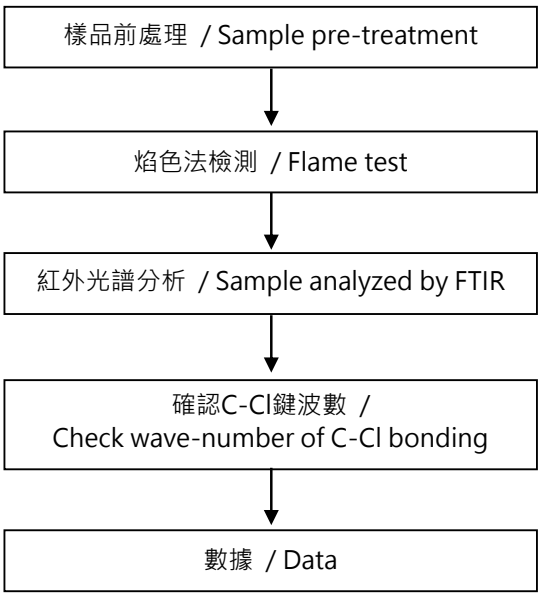
**六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD**




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**聚氯乙烯物質判定分析流程圖 / Analysis flow chart - PVC**

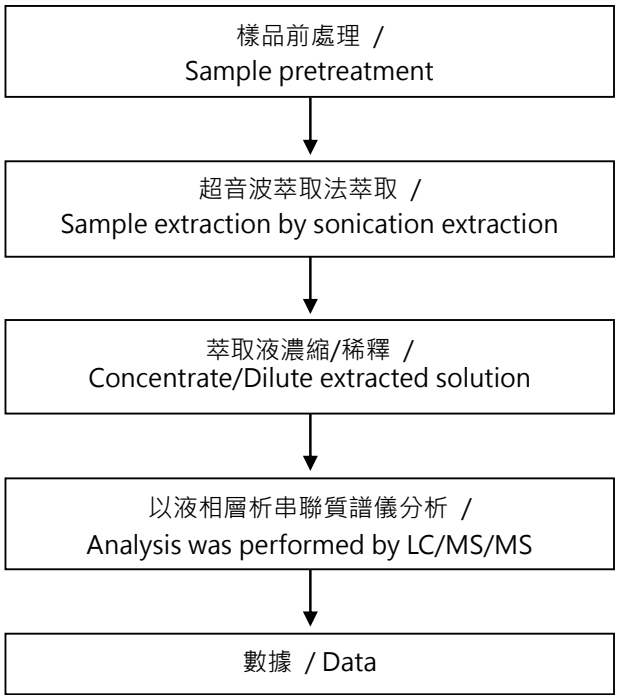




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**雙酚A分析流程圖 / Analytical flow chart - Bisphenol A**




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**ASTM F963 分析流程圖 / Analytical flow chart- ASTM F963**

**溶出元素遷移 / Soluble migrated**

剪樣 / Cut sample
↓
秤重 0.5g / Weight 0.5g
↓
加入25ml 0.07N HCl / Add 25ml 0.07N HCl
↓
水浴震盪37±2℃ 1小時 / The water bath shakes for 37±2℃ 1 hour
↓
同溫度靜置1小時 / Same temperature settlement 1 hour
↓
過濾 / Filtration
↓
以感應耦合電漿發射光譜儀分析/ Analysis was performed by ICP-OES
↓
數據/ Data

**總鉛 / Total Lead**

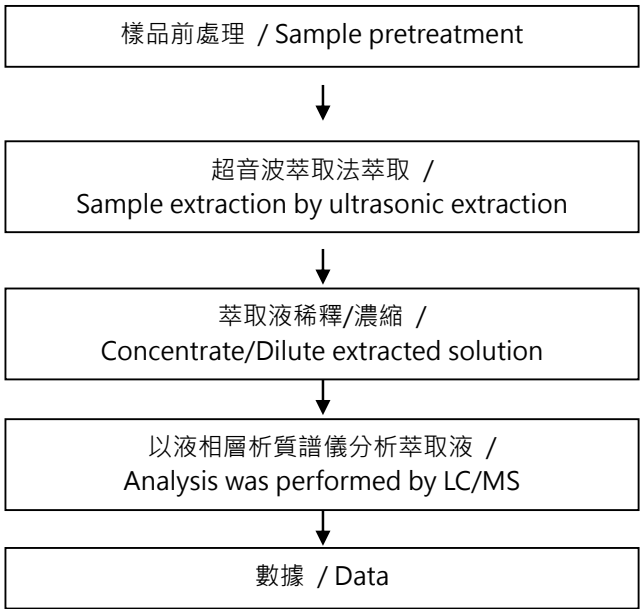
剪樣 / Cut sample
↓
秤重 0.2g / Weight 0.2g
↓
微波消化 / Microwave digestion
↓
過濾 / Filtration
↓
定量體積25ml / Dilute to 25ml
↓
以感應耦合電漿發射光譜儀分析/ Analysis was performed by ICP-OES
↓
數據/ Data


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**分析流程圖 / Analytical flow chart**

*** 適用於 / Apply to: NP、OP、4-t-OP、NPEO、OPEO**




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# 測試報告
# Test Report



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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.)**

**ETR24101079**



** 報告結尾 (End of Report) **

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