

測試報告 Test Report

號碼(No.): CE/2008/12889

日期(Date): 2008/01/17

頁數(Page): 3 of 6

華田油墨股份有限公司

TAIWAN SAKATA INK CORP.

桃園縣中壢市工業區東園路12號

NO. 12, DONGYUAN RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN, R. O. C.



測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 深藍色油墨 (DK. BLUE INK)

備註(Note):

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. 根據2005年10月13日歐盟會議公佈2005/717/EC, 修訂2002/95/EC內容, 通過解除高分子材質中十溴聯苯醚之使用限制. (According to 2005/717/EC DecaBDE is exempt.)
5. "-" = Not Regulated (無規格值)

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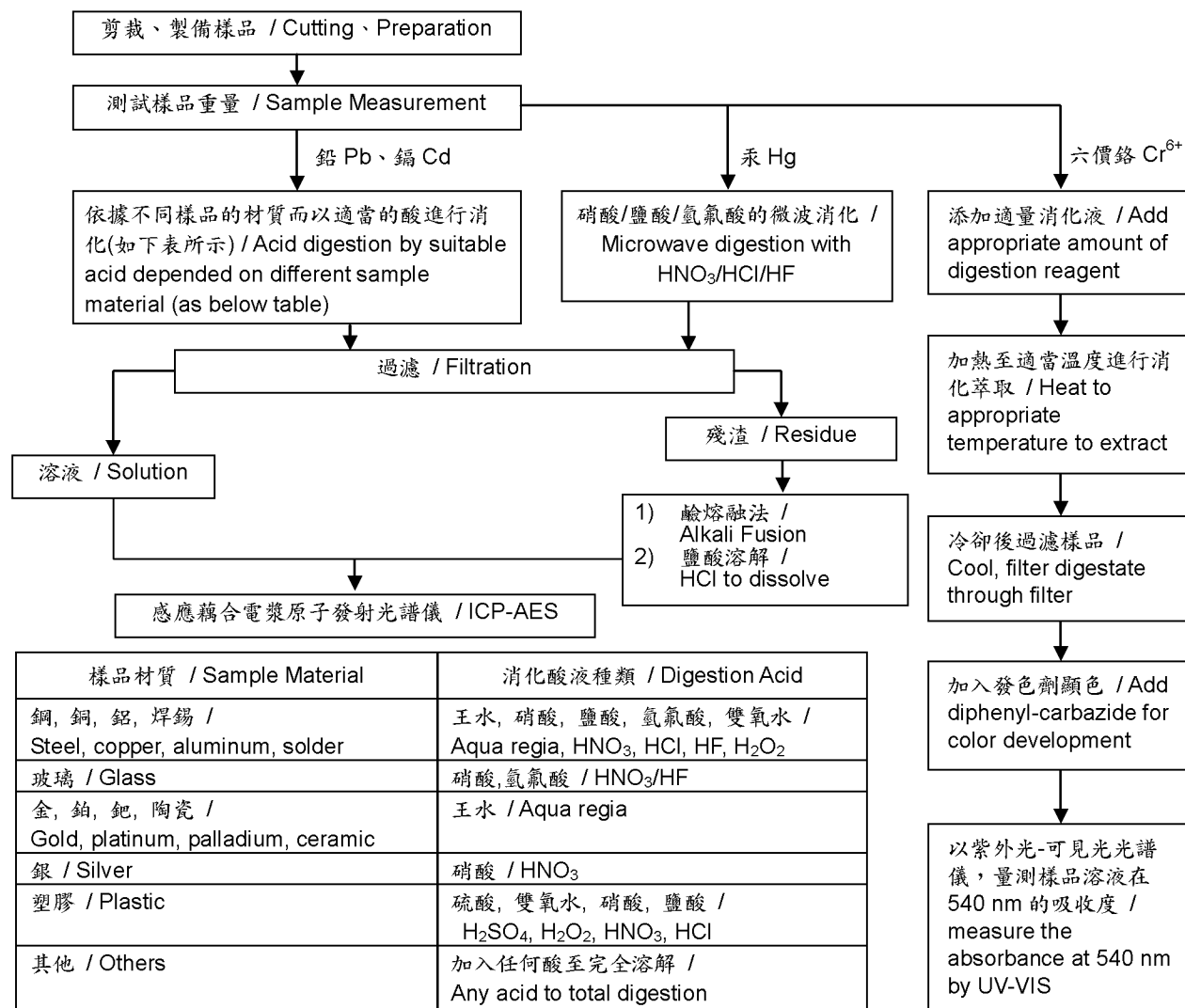
TAIWAN SAKATA INK CORP.

桃園縣中壢市工業區東園路12號

NO. 12, DONGYUAN RD., JHONGLI CITY, TAOYUAN COUNTY 320, TAIWAN, R. O. C.



- 1) 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)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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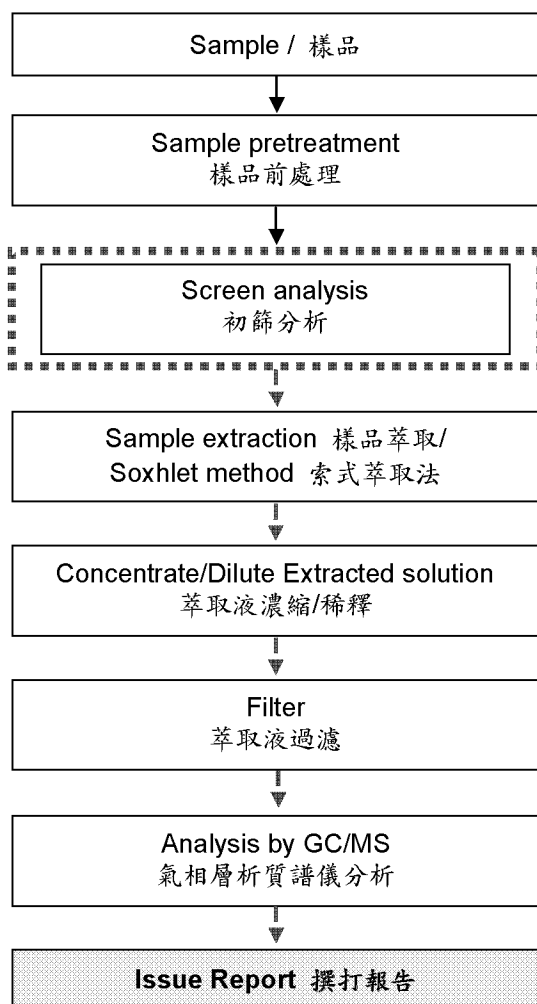


多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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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** 報告結尾 **

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TAIWAN SAKATA INK CORP.

桃園縣中壢市工業區東園路12號

4F., NO. 21-1, LANE 45, 2ND SECTION, CHUNG-SHAN NINTH ROAD, TAIPEI, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : 水性黑色油墨 (N-378.DF-26) (FLEXO BLACK INK (N-378.DF-26))
收件日期(Sample Receiving Date) : 2008/07/24
測試期間(Testing Period) : 2008/07/24 TO 2008/07/31

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

Shin-Jyh Chen
Shin-jyh Chen / Asst. Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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桃園縣中壢市工業區東園路12號

4F., NO. 21-1, LANE 45, 2ND SECTION, CHUNG-SHAN NINTH ROAD, TAIPEI, TAIWAN



測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黑色油墨 (BLACK INK)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
				NO.1
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析氯含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Chlorine content.	50	118
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	參考BS EN 14582:2007, 以離子層析儀 分析溴含量. / With reference to BS EN 14582:2007. Analysis was performed by IC method for Bromine content.	50	105

備註(Note) :

1. mg/kg = ppm
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3. MDL = Method Detection Limit (方法偵測極限值)

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TAIWAN SAKATA INK CORP.

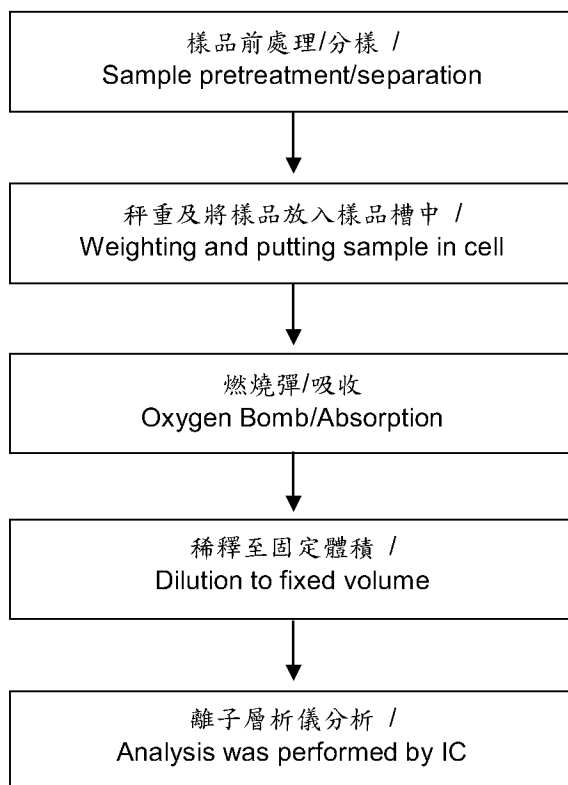
桃園縣中壢市工業區東園路12號

4F., NO. 21-1, LANE 45, 2ND SECTION, CHUNG-SHAN NINTH ROAD, TAIPEI, TAIWAN



鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員：藍雅婷 / Name of the person who made measurement: Tin Lan
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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4F., NO. 21-1, LANE 45, 2ND SECTION, CHUNG-SHAN NINTH ROAD, TAIPEI, TAIWAN



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測試報告 Test Report

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台灣塑膠工業股份有限公司

FORMOSA PLASTICS CORPORATION

雲林縣麥寮鄉台塑工業園區1號 聚烯部技術處

NO. 1, FORMOSA INDUSTRIAL COMPLEX, MAILIAO VILLAGE, YUNLIN COUNTRY,
TAIWAN

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 台塑烯LDPE薄膜級聚合物 6334F (TAISOX LDPE FILM GRADE POLYMER 6334F)
樣品型號(Style/Item No.) : 6334F、6030F、6130F、6323F、6330F、6534F、6634F
收件日期(Sample Receiving Date) : 2008/07/04
測試期間(Testing Period) : 2008/07/04 TO 2008/07/11

- =====
測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).
- 測試方法(Test Method) : 參考IEC 62321/2nd CDV (111/95/CDV)方法檢測. (With reference to IEC 62321/2nd CDV (111/95/CDV). Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).
- (1) 用感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
 - (2) 用感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
 - (3) 用感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
 - (4) 針對非金屬材質之樣品，用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
 - (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.
- 測試結果(Test Results) : 請見下一頁 (Please refer to next pages).
- 結論(Conclusion) : 根據客戶所提供樣品的測試結果，符合RoHS(2002/95/EC)及其修定指令之要求 (Based on the performed tests on submitted samples, the test results are compliant with the limits of RoHS Directive 2002/95/EC and its subsequent amendments).

Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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台灣塑膠工業股份有限公司

FORMOSA PLASTICS CORPORATION

雲林縣麥寮鄉台塑工業園區1號 聚烯部技術處

NO. 1, FORMOSA INDUSTRIAL COMPLEX, MAILIAO VILLAGE, YUNLIN COUNTRY,
TAIWAN

測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)	RoHS 限值 (Limit)
		No.1		
鎘 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	n.d.	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
多溴聯苯總和 / Sum of PBBs	(5)	n.d.	-	1000
一溴聯苯 / Monobromobiphenyl		n.d.	5	-
二溴聯苯 / Dibromobiphenyl		n.d.	5	-
三溴聯苯 / Tribromobiphenyl		n.d.	5	-
四溴聯苯 / Tetrabromobiphenyl		n.d.	5	-
五溴聯苯 / Pentabromobiphenyl		n.d.	5	-
六溴聯苯 / Hexabromobiphenyl		n.d.	5	-
七溴聯苯 / Heptabromobiphenyl		n.d.	5	-
八溴聯苯 / Octabromobiphenyl		n.d.	5	-
九溴聯苯 / Nonabromobiphenyl		n.d.	5	-
十溴聯苯 / Decabromobiphenyl		n.d.	5	-
多溴聯苯醚總和 / Sum of PBDEs		n.d.	-	1000
一溴聯苯醚 / Monobromodiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromodiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromodiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromodiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromodiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromodiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromodiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromodiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromodiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromodiphenyl ether		n.d.	5	-

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FORMOSA PLASTICS CORPORATION

雲林縣麥寮鄉台塑工業園區1號 聚烯部技術處

NO. 1, FORMOSA INDUSTRIAL COMPLEX, MAILIAO VILLAGE, YUNLIN COUNTRY,
TAIWAN

測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

備註(Note):

1. mg/kg = ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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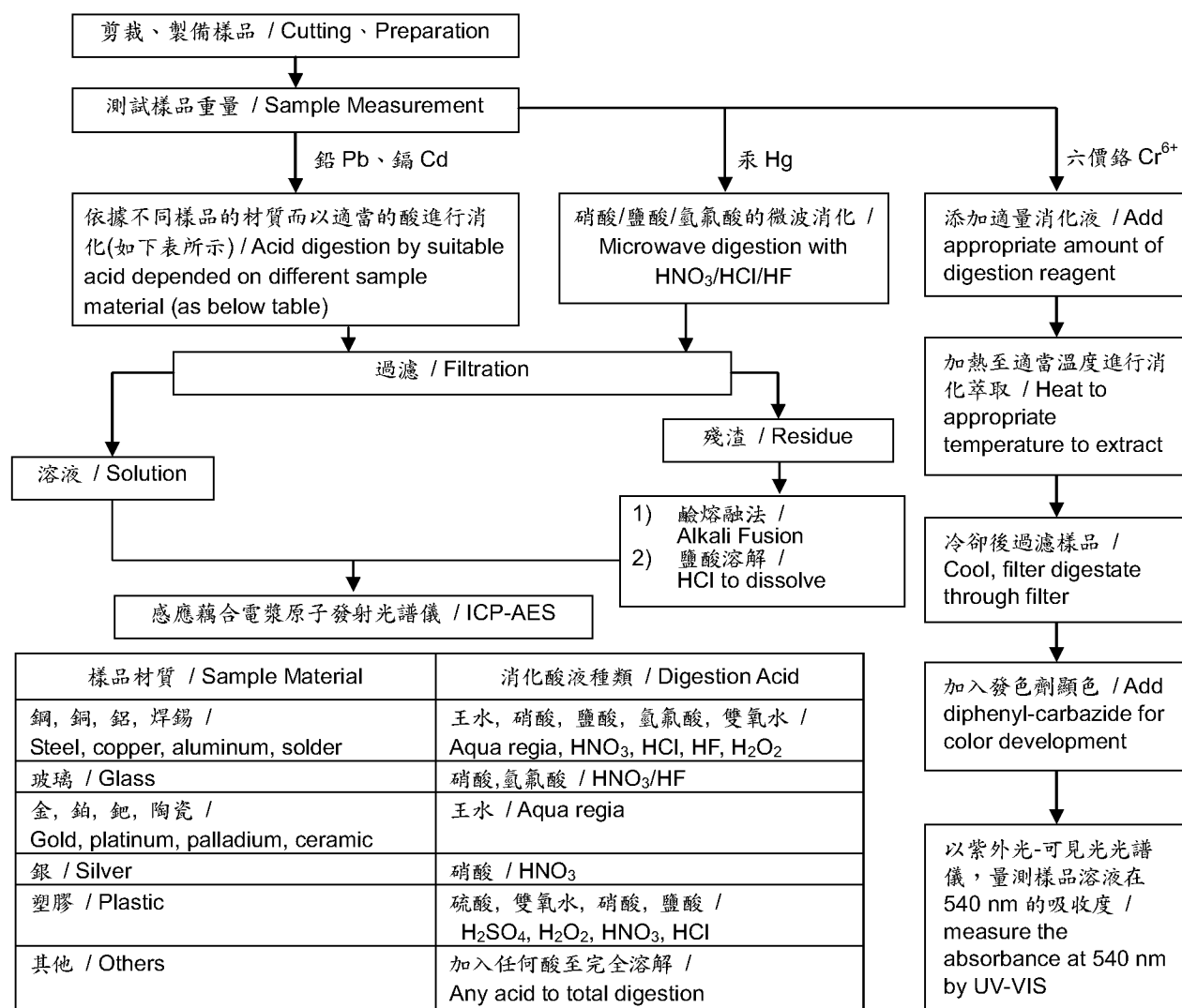
台灣塑膠工業股份有限公司

FORMOSA PLASTICS CORPORATION

雲林縣麥寮鄉台塑工業園區1號 聚烯部技術處

NO. 1, FORMOSA INDUSTRIAL COMPLEX, MAILIAO VILLAGE, YUNLIN COUNTRY,
TAIWAN

- 1) 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)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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雲林縣麥寮鄉台塑工業園區1號 聚烯部技術處

NO. 1, FORMOSA INDUSTRIAL COMPLEX, MAILIAO VILLAGE, YUNLIN COUNTRY,
TAIWAN

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

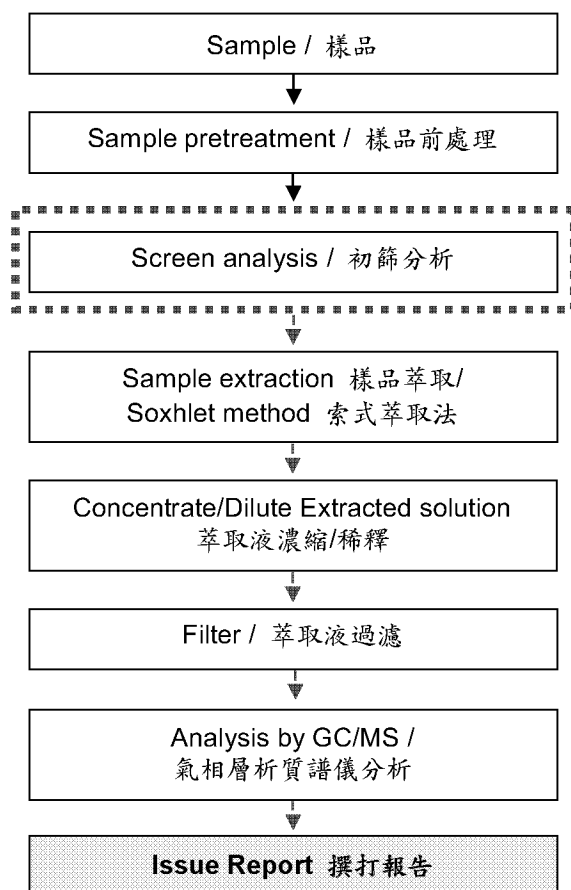
1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong

2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

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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