

檢測報告 Test Report



報告編號 A2230051808101001E
Report No. A2230051808101001E

第 1 頁 共 7 頁
Page 1 of 7

報告抬頭公司名稱 立基電子工業股份有限公司
Company Name LIGITEK ELECTRONICS CO., LTD.
shown on Report

地址 23845 新北市樹林區博愛街238號
Address NO.238, BO-AI ST., SHULIN DISTRICT, NEW TAIPEI CITY 238, 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 | SMD LED |
| Sample Name | SMD LED |
| 樣品型號 | SMD series |
| Part No. | SMD series |
| 樣品接收日期 | 2023.02.15 |
| Sample Received Date | Feb. 15, 2023 |
| 樣品檢測日期 | 2023.02.15-2023.02.21 |
| Testing Period | Feb. 15, 2023 to Feb. 21, 2023 |

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)，氯(Cl)，溴(Br)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), Chlorine (Cl), Bromine (Br) in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。
Test Method/Test Result(s) 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 2023.02.21

No. R392336059

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檢測報告

Test Report

報告編號 A2230051808101001E

Report No. A2230051808101001E

第 2 頁 共 7 頁

Page 2 of 7

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 |
| 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 |

檢測報告

Test Report

報告編號 A2230051808101001E

第 3 頁 共 7 頁

Report No. A2230051808101001E

Page 3 of 7

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 |

檢測報告 Test Report

報告編號 A2230051808101001E

Report No. A2230051808101001E

第 4 頁 共 7 頁

Page 4 of 7

檢測結果 Test Result(s)

| 測試項目 Tested Item(s) | 結果 Result | 方法檢出限 MDL |
|---------------------|-----------|-----------|
| | 001 | |
| 氯 Chlorine (Cl) | N.D. | 50 mg/kg |
| 溴 Bromine (Br) | N.D. | 50 mg/kg |

樣品/部位描述 Sample/Part Description

| 序號 | CTI 樣品 ID | 描述 |
|-----|---------------|--|
| No. | CTI Sample ID | Description |
| 1 | 001 | 電子元器件(整體測試) Electronic components (Tested as a whole) |

備註: 對於檢測鉛, 鎘, 汞之樣品已消解完全。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg = ppm = 百萬分之一

-按照目前手段, 樣品無法進一步拆分, 樣品整體測試, 測試結果不代表整體測試樣品中任何一種單一材質的含量。

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

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

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.**

檢測報告 Test Report

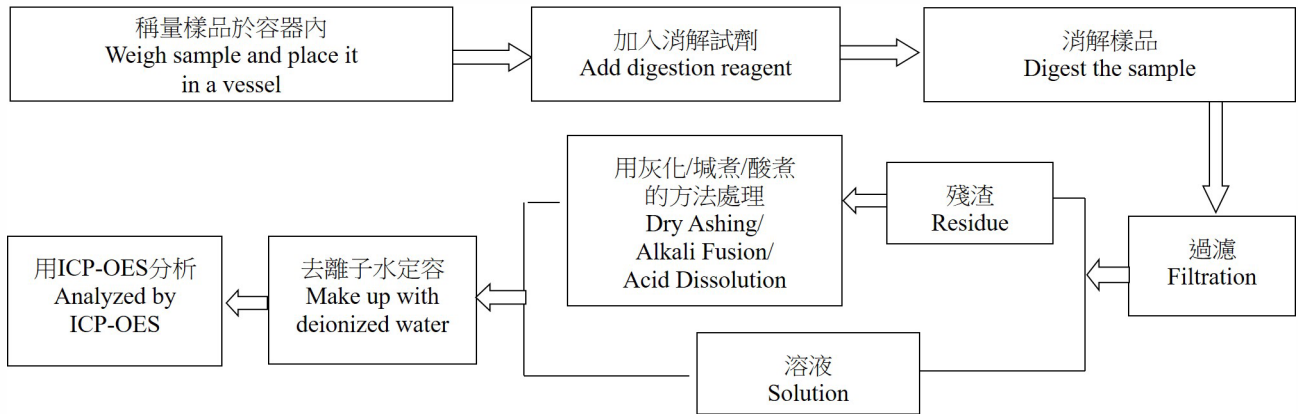
報告編號 A2230051808101001E
Report No. A2230051808101001E

第 5 頁 共 7 頁
Page 5 of 7

檢測流程 Test Process

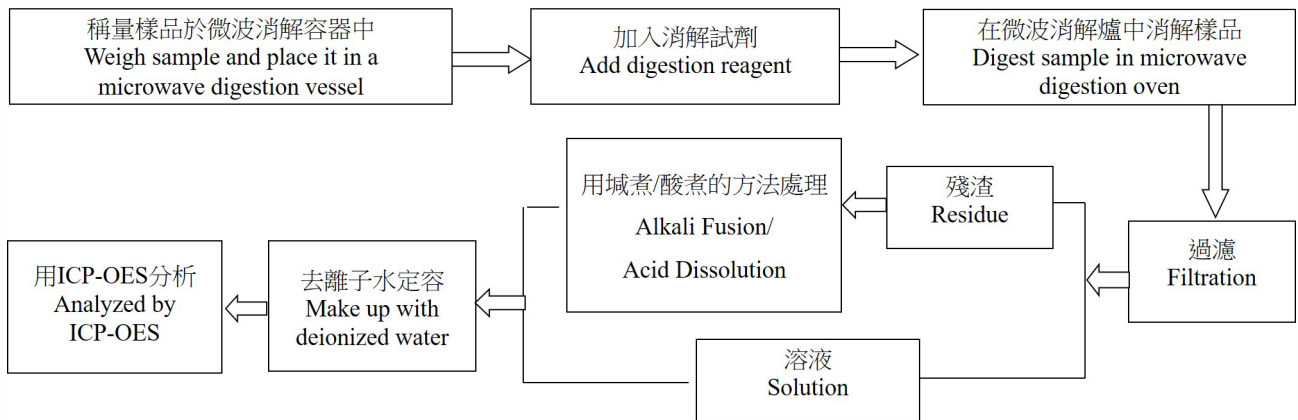
1. 鉛(Pb), 鎘(Cd)

Lead (Pb), Cadmium (Cd)



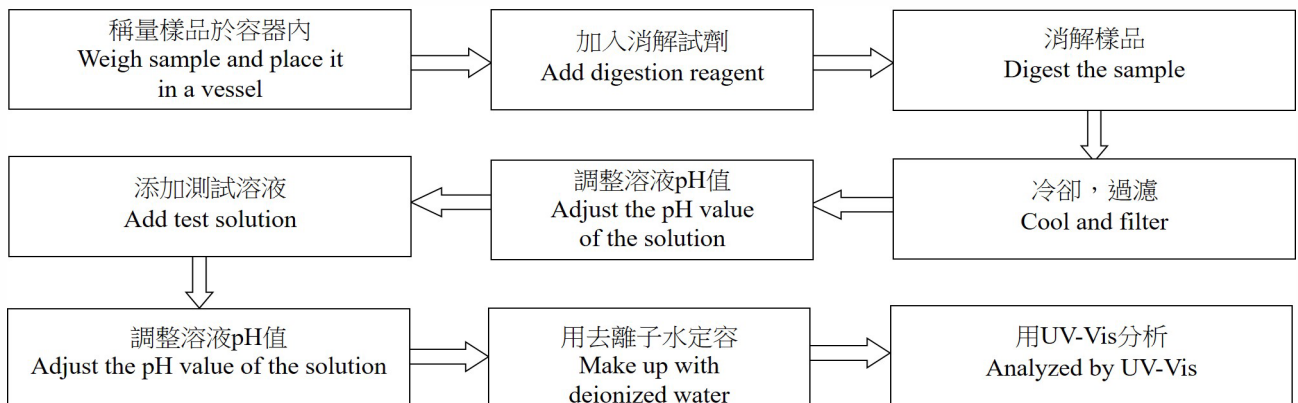
2. 汞(Hg)

Mercury (Hg)



3. 六價鉻(Cr(VI))

Hexavalent Chromium (Cr(VI))



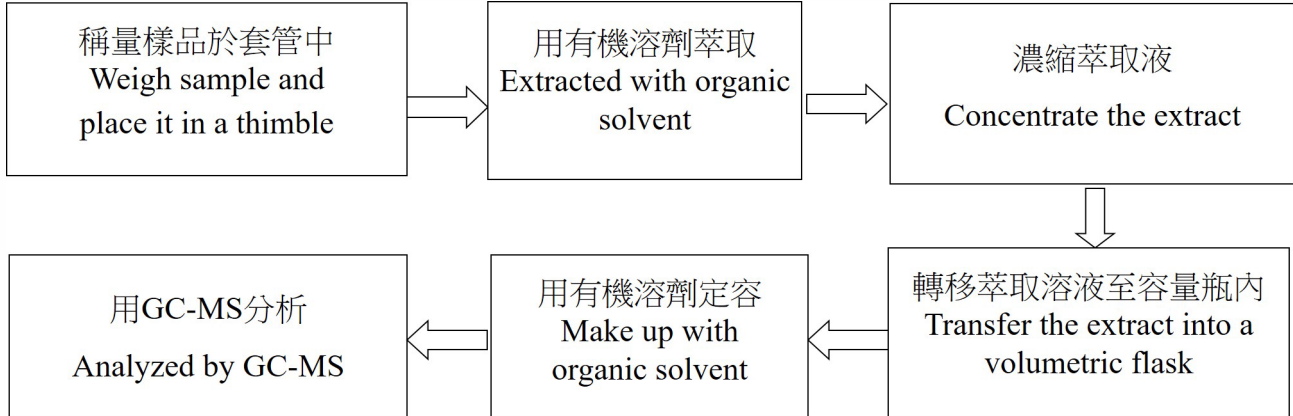
檢測報告 Test Report

報告編號 A2230051808101001E
Report No. A2230051808101001E

第 6 頁 共 7 頁
Page 6 of 7

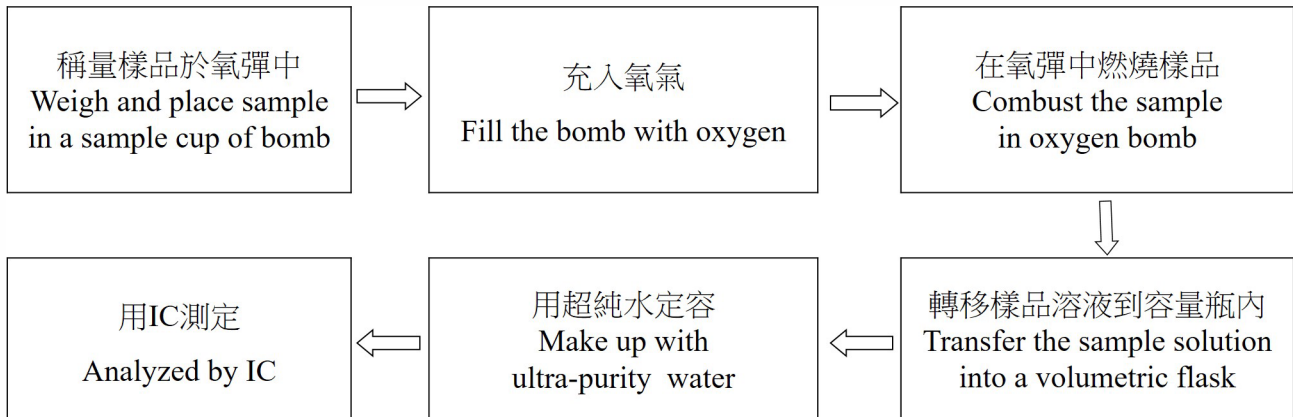
4. 多溴聯苯(PBBs), 多溴二苯醚(PBDEs)

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



5. 氯(Cl), 溴(Br)

Chlorine (Cl), Bromine (Br)

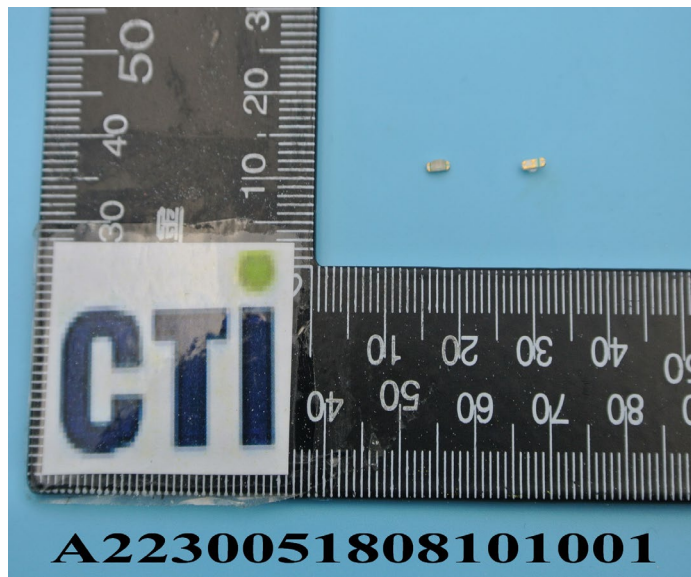


檢測報告 Test Report

報告編號 A2230051808101001E
Report No. A2230051808101001E

第 7 頁 共 7 頁
Page 7 of 7

樣品圖片 Photo(s) of the sample(s)



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報告結束
*** End of report ***