



中国认可
国际互认
检测
TESTING
CNAS L6478



检测报告

TEST REPORT

报告编号/ Report No..... : WTH22F06110734C

委托方/ Applicant..... : 肇庆市立得电子有限公司
LEDTECH ELECTRONICS CORPORATION

地址/ Address..... : 广东省肇庆市端州区璜西路西、桂园路北（22区）
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District, Zhaoqing City, Guangdong Province, China

样品名称/ Sample Name..... : SMD LED LAMP

检测要求/ Test Requested..... : 根据欧盟RoHS指令2011/65/EU及其修订指令(EU)
No.2015/863, 测试样品中10种限制物质的含量
In according to the EU RoHS Directive 2011/65/EU and its
amendment (EU) No.2015/863, to determine the 10 restricted
substances content in the submitted sample.

检测结论/ Test Conclusion..... : 符合（详情请参见下一页）
Pass (Please refer to next pages for details)

样品接收日期/ Date of Receipt sample..... : 2022-06-02

检测周期/ Testing period..... : 2022-06-02 ~ 2022-06-09

报告日期/ Date of Issue..... : 2022-06-10

检测结果/ Test Result..... : 参见报告下页/ Refer to next page (s)

报告制作/ Prepared By:

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授权签字人

Signed for and on behalf of

Waltek Testing Group (Foshan) Co., Ltd.

梁志聪

梁志聪/ Swing.Liang

佛山市沃特测试技术服务有限公司/ Waltek Testing Group (Foshan) Co., Ltd.

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WT-F-510-3003-06-A



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样品图片 / Sample Photo:



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测试结果/ Test Results:

测试方法/ Test Method:

- 参考IEC62321-5: 2013, 使用ICP-OES检测铅、镉含量;
- 参考IEC62321-4:2013+AMD1:2017 CSV, 使用ICP-OES检测汞含量;
- 参考IEC62321-7-2:2017, 使用UV-Vis检测六价铬含量;
- 参考IEC62321-6:2015, 使用GC-MS检测PBBs及PBDEs含量。
- With reference to IEC62321-5:2013, determination of Lead and Cadmium by ICP-OES;
- With reference to IEC62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES;
- With reference to IEC62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method;
- With reference to IEC62321-6:2015, determination of PBBs and PBDEs by GC-MS.

| 测试项目 Test Item(s) | 单位Unit | 测试结果 Test Results | 定量限 LOQ | 限值 Limit |
|---------------------------------------------|--------|----------------------|------------|-------------|
| | | No.1 | | |
| 铅 Lead (Pb) | mg/kg | ND | 2 | 1000 |
| 镉 Cadmium (Cd) | mg/kg | ND | 2 | 100 |
| 汞 Mercury (Hg) | mg/kg | ND | 2 | 1000 |
| 六价铬 Hexavalent Chromium (Cr ⁶⁺) | mg/kg | ND | 8 | 1000 |
| 多溴联苯总和 Sum of PBBs | mg/kg | ND | -- | 1000 |
| 一溴联苯 Monobromobiphenyl | mg/kg | ND | 5 | -- |
| 二溴联苯 Dibromobiphenyl | mg/kg | ND | 5 | -- |
| 三溴联苯 Tribromobiphenyl | mg/kg | ND | 5 | -- |
| 四溴联苯 Tetrabromobiphenyl | mg/kg | ND | 5 | -- |
| 五溴联苯 Pentabromobiphenyl | mg/kg | ND | 5 | -- |
| 六溴联苯 Hexabromobiphenyl | mg/kg | ND | 5 | -- |
| 七溴联苯 Heptabromobiphenyl | mg/kg | ND | 5 | -- |
| 八溴联苯 Octabromobiphenyl | mg/kg | ND | 5 | -- |
| 九溴联苯 Nonabromobiphenyl | mg/kg | ND | 5 | -- |
| 十溴联苯 Decabromobiphenyl | mg/kg | ND | 5 | -- |
| 多溴二苯醚总和 Sum of PBDEs | mg/kg | ND | -- | 1000 |
| 一溴二苯醚 Monobromodiphenyl ether | mg/kg | ND | 5 | -- |
| 二溴二苯醚 Dibromodiphenyl ether | mg/kg | ND | 5 | -- |
| 三溴二苯醚 Tribromodiphenyl ether | mg/kg | ND | 5 | -- |
| 四溴二苯醚 Tetrabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 五溴二苯醚 Pentabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 六溴二苯醚 Hexabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 七溴二苯醚 Heptabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 八溴二苯醚 Octabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 九溴二苯醚 Nonabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 十溴二苯醚 Decabromodiphenyl ether | mg/kg | ND | 5 | -- |
| 结论 Conclusion | -- | 符合/Pass | -- | -- |



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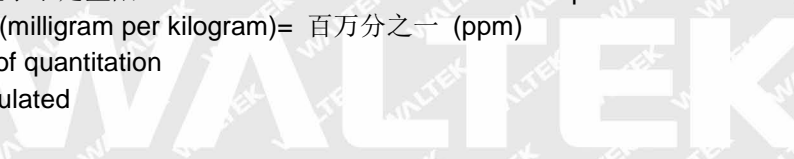
| 测试项目 Test Item(s) | 单位 Unit | 测试方法/测试仪器 Test Method & Test Equipment | 结果 Results | 定量限 LOQ | 限值 Limit |
|----------------------------------------------------------------|------------|----------------------------------------------|---------------|------------|-------------|
| | | | No.1 | | |
| 邻苯二甲酸二(2-乙基己基)酯 (DEHP) Bis (2-ethylhexyl)- phthalate (DEHP) | mg/kg | IEC 62321-8:2017, GC-MS | ND | 50 | 1000 |
| 邻苯二甲酸二丁酯(DBP) Dibutyl phthalate (DBP) | mg/kg | | ND | 50 | 1000 |
| 邻苯二甲酸丁苄酯(BBP) Benzylbutyl phthalate (BBP) | mg/kg | | ND | 50 | 1000 |
| 邻苯二甲酸二异丁酯(DIBP) Diisobutyl phthalate (DIBP) | mg/kg | | ND | 50 | 1000 |
| 结论 / Conclusion | -- | -- | 符合/ Pass | -- | -- |

样品描述 / Specimen Description:

No.1: 贴片发光二极管/ SMD LED LAMP

备注/ Note:

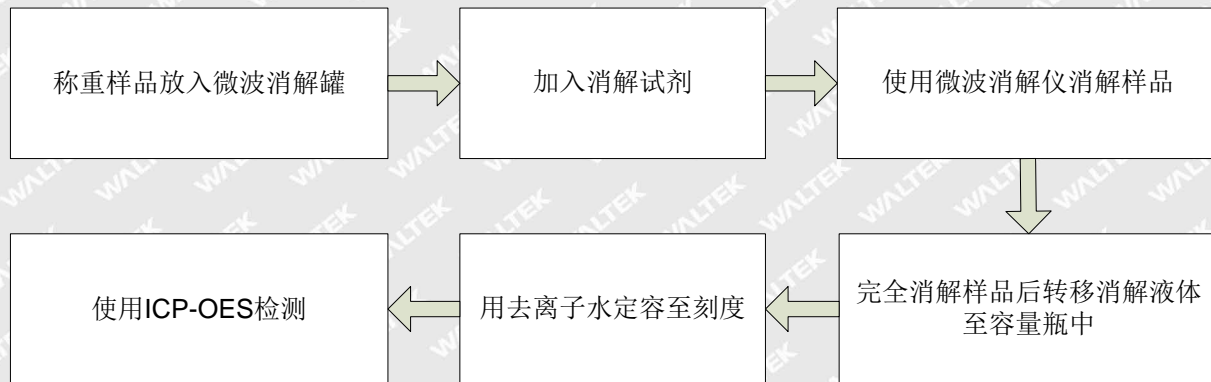
- (1) ND =未检出, 检测值小于定量限/ Not Detected or lower than limit of quantitation
- (2) mg/kg =毫克每千克 (milligram per kilogram)= 百万分之一 (ppm)
- (3) LOQ =定量限/ Limit of quantitation
- (4) "--" =未规定/ Not regulated



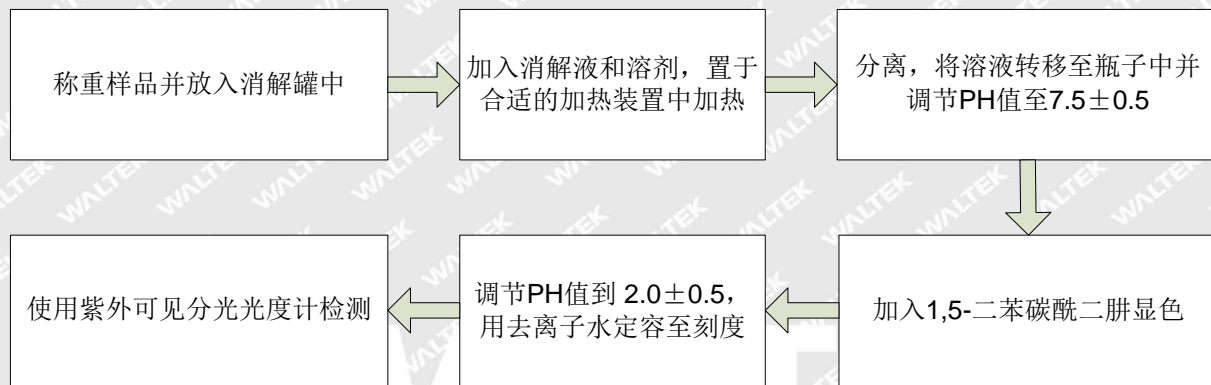


测试流程图:

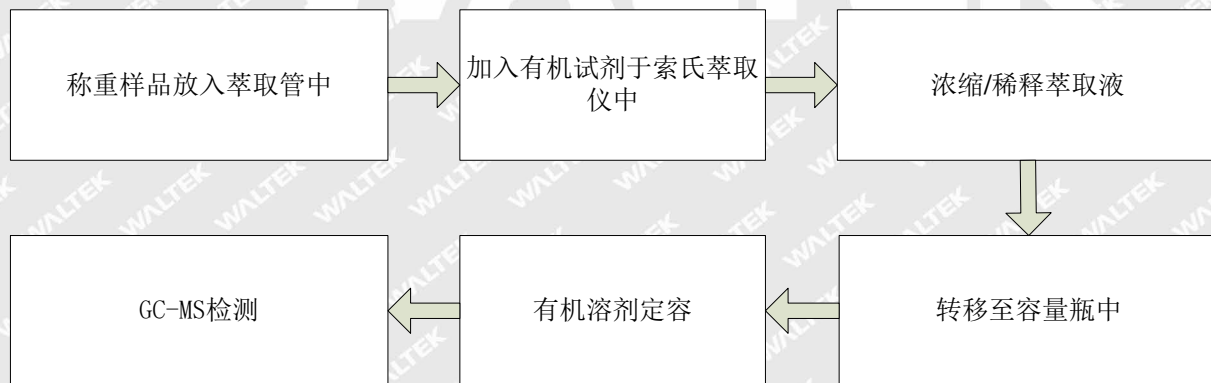
1. 铅、镉、汞测试流程图



2. 六价铬测试流程图



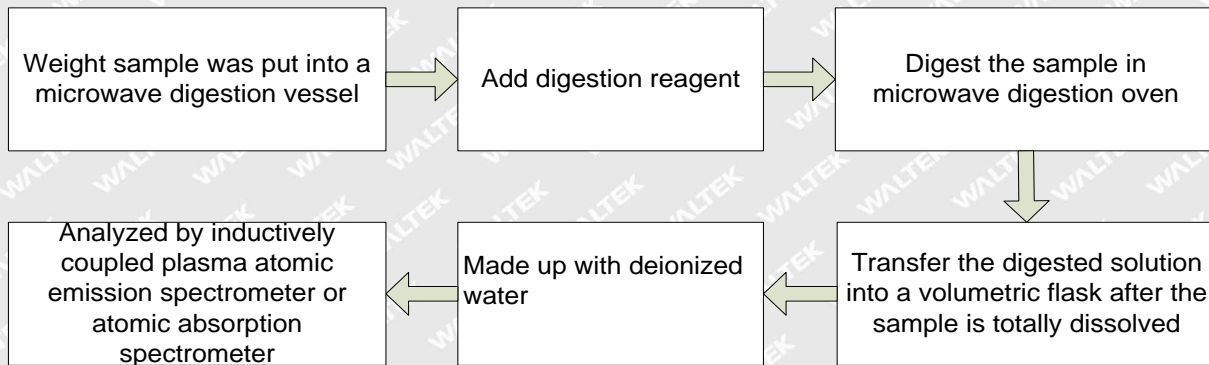
3. 多溴联苯、多溴二苯醚、邻苯二甲酸酯测试流程图



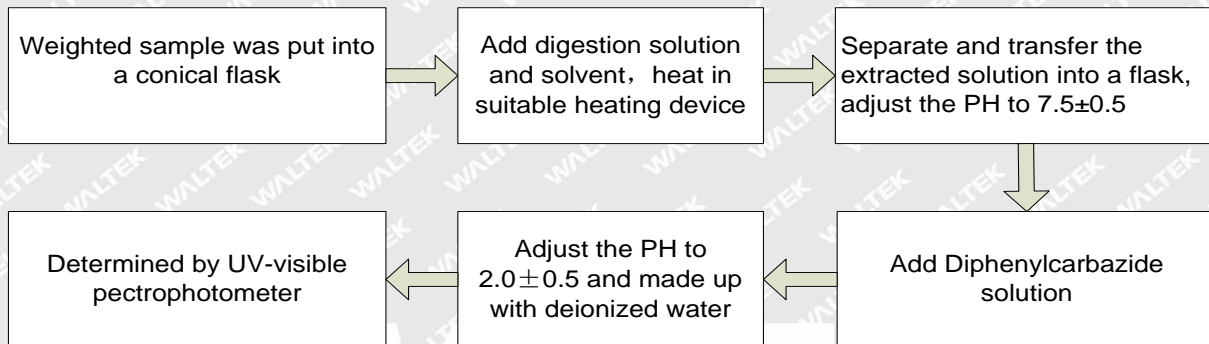


Testing Flow chart:

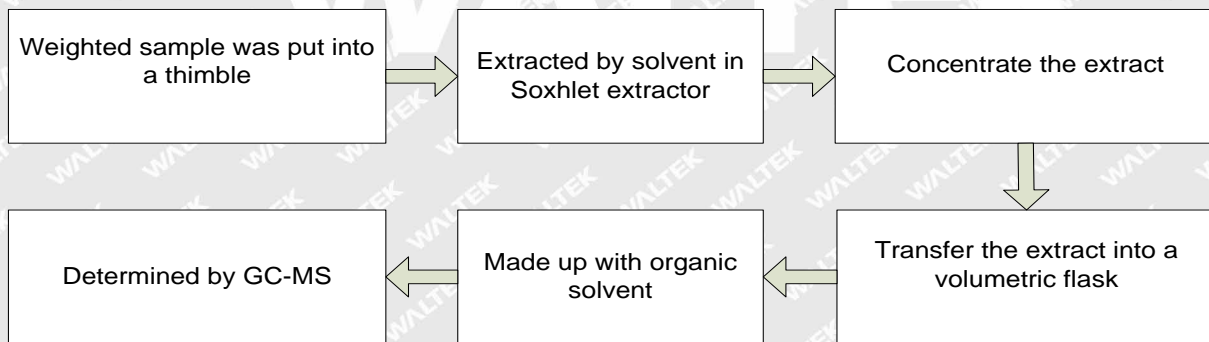
1. Test for Cd/ Pb/ Hg contents



2. Test for Cr⁶⁺ content



3. Test for PBBs/ PBDEs/ DIBP/ DEHP/ DBP/ BBP contents





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备注/ Remarks:

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