



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..... : WTH23F06127685C

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）
(Zone 22) Guiyuan Rd. North, Jixi Rd. West, Duanzhou
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..... : 2023-06-12

检测周期/ Testing period..... : 2023-06-12 ~ 2023-06-16

报告日期/ Date of Issue..... : 2023-06-19

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.

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<http://www.waltek.com.cn>

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WT-510-201-16-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 IIEC62321-7-2:2017, 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	16	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	--	--



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	--	--

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

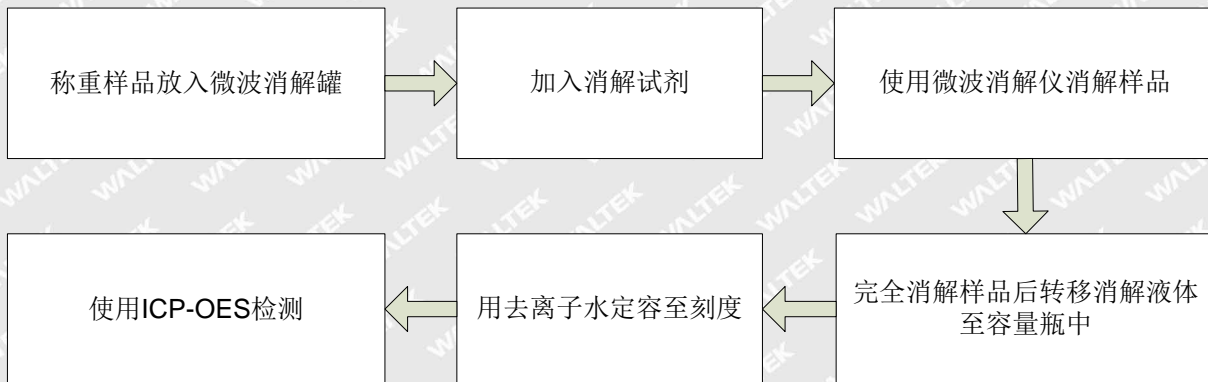
样品描述 / Specimen Description:

样品编号 Specimen No.	样品描述 Specimen Description
1	贴片发光二极管 SMD LED LAMP

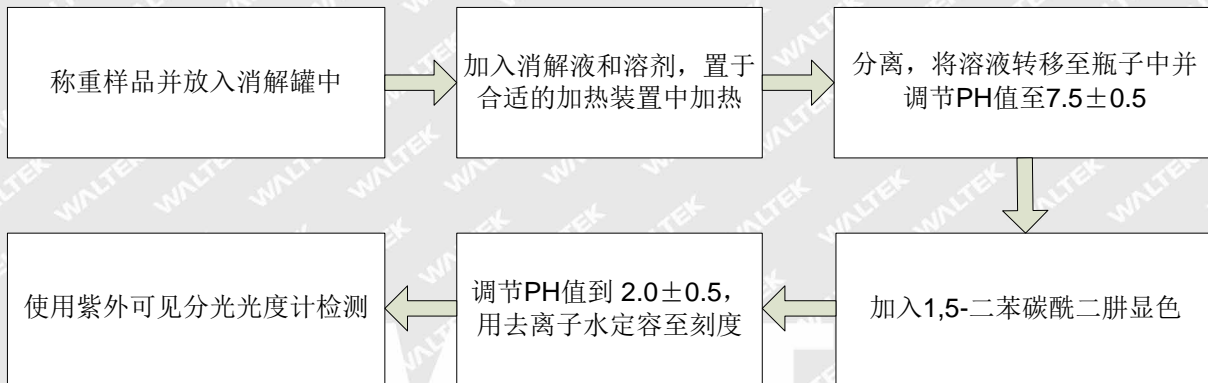


测试流程图:

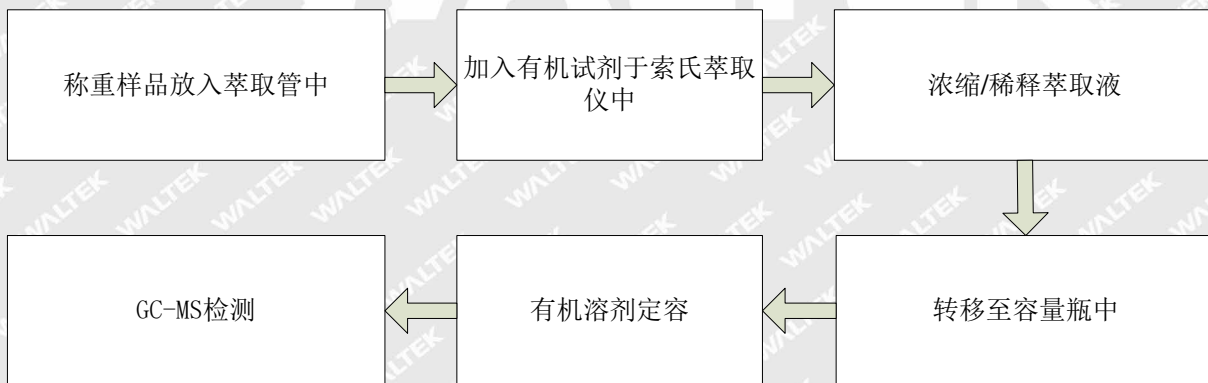
1. 铅、镉、汞测试流程图



2. 六价铬测试流程图



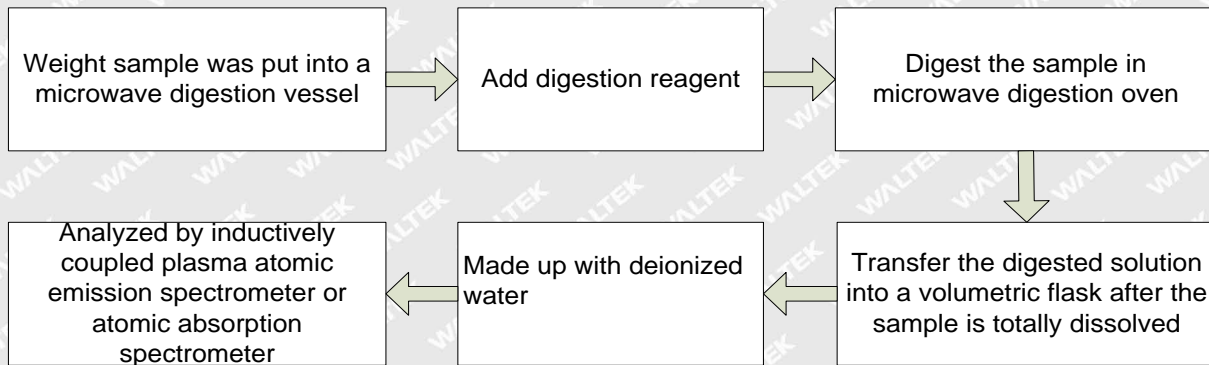
3. 多溴联苯、多溴二苯醚、邻苯二甲酸酯测试流程图



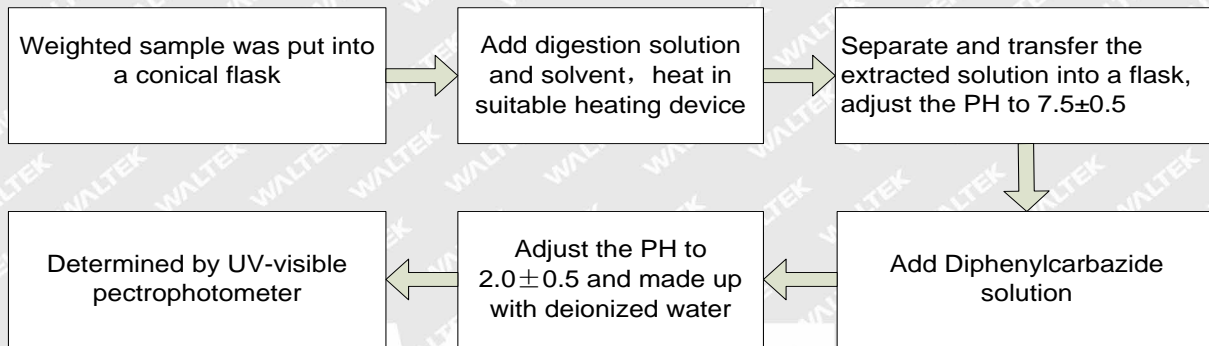


Testing Flow chart:

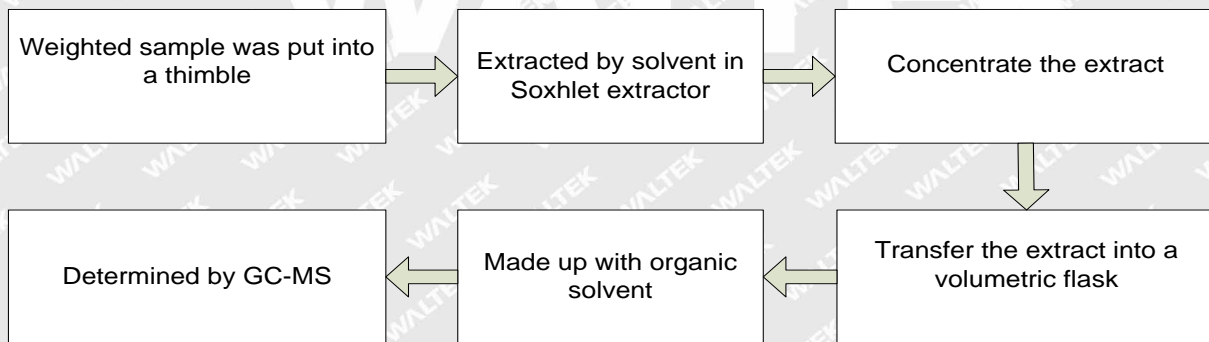
1. Test for Cd/ Pb/ Hg contents



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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