



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..... : WTH24F01019720X1C

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瓊西路西、桂园路北（22區）  
(Zone 22) Guiyuan Rd. North, Jixi Rd. West, Duanzhou  
District, Zhaoqing City, Guangdong Province ,China

样品名称/ Sample Name ..... : CHIP 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.

检测方法/ Test Method..... : 参见报告下页/ Refer to next page (s)

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..... : 2024-01-25

检测周期/ Testing period ..... : 2024-01-25 ~ 2024-01-30

报告日期/ Date of Issue..... : 2024-02-01

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

备注/ Note ..... : 此报告是在沃特报告WTH24F01019720C基础上修改，并替  
代报告WTH24F01019720C。  
This report is based on Waltek test report  
WTH24F01019720C for revising, and replaced report  
WTH24F01019720C.

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佛山市沃特测试技术服务有限公司

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



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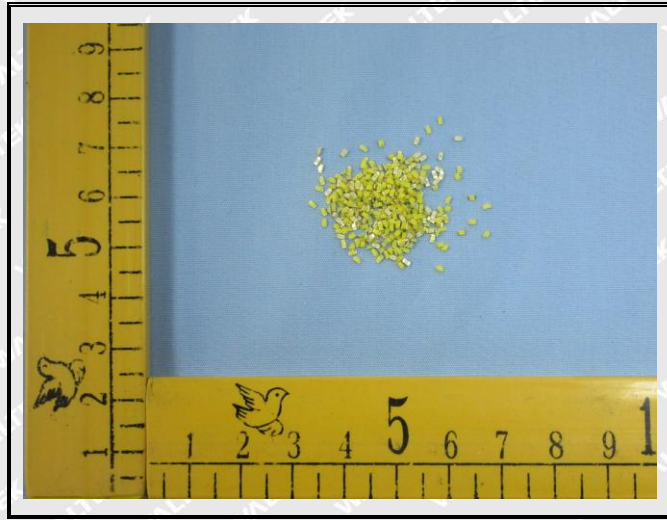
佛山市沃特测试技术服务有限公司/ Waltek Testing Group (Foshan) Co., Ltd.

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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.3		
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 <sup>6+</sup> )	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	--
<b>结论 Conclusion</b>	--	<b>符合/Pass</b>	--	--



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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.3		
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
<b>结论 / Conclusion</b>	--	--	<b>符合/ Pass</b>	--	--

**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

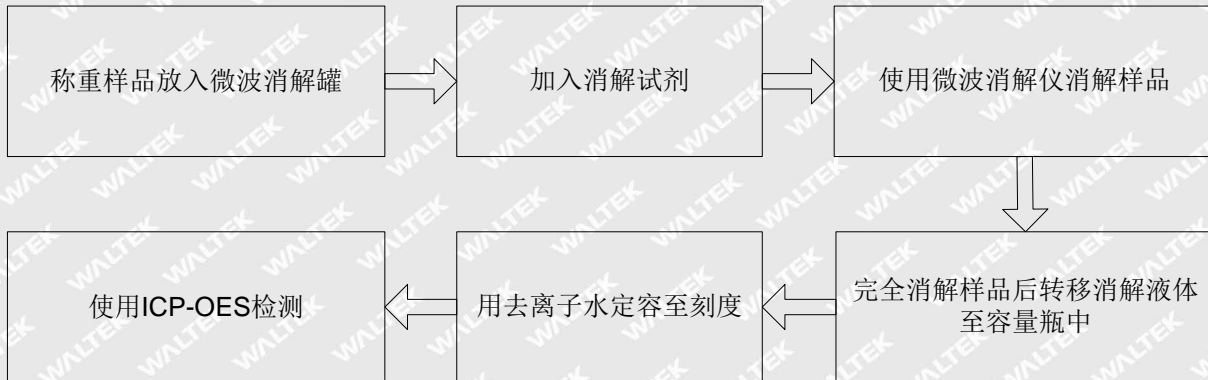
**样品描述 / Specimen Description:**

样品编号 Specimen No.	样品描述 Specimen Description
3	贴片发光二极管 Chip LED

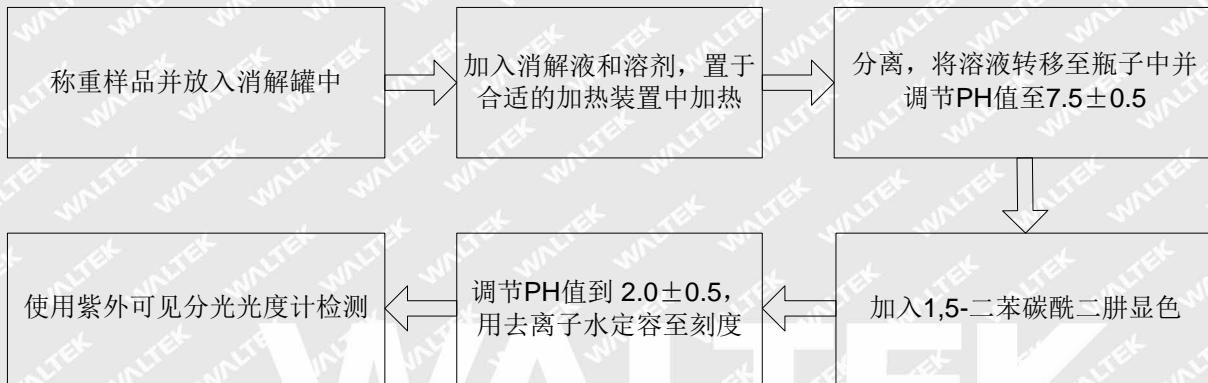


测试流程图:

1. 铅、镉、汞测试流程图



2. 六价铬测试流程图



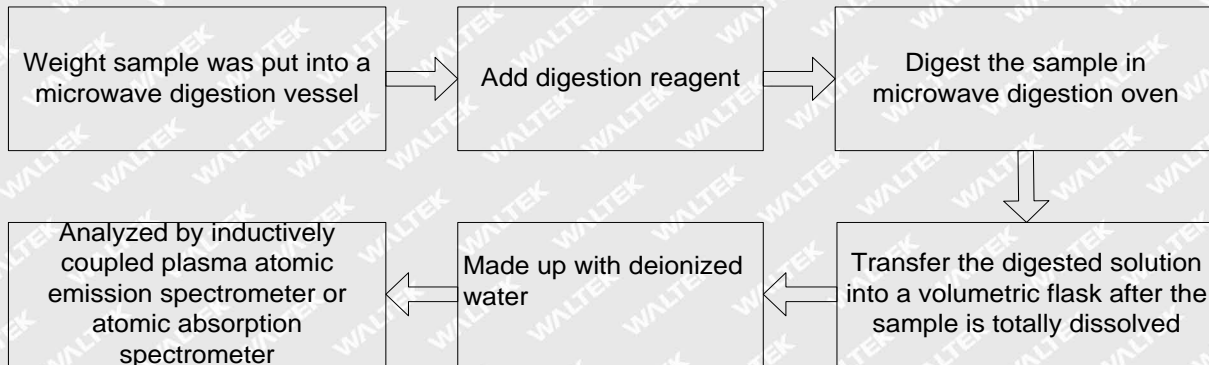
3. 多溴联苯、多溴二苯醚、邻苯二甲酸酯测试流程图



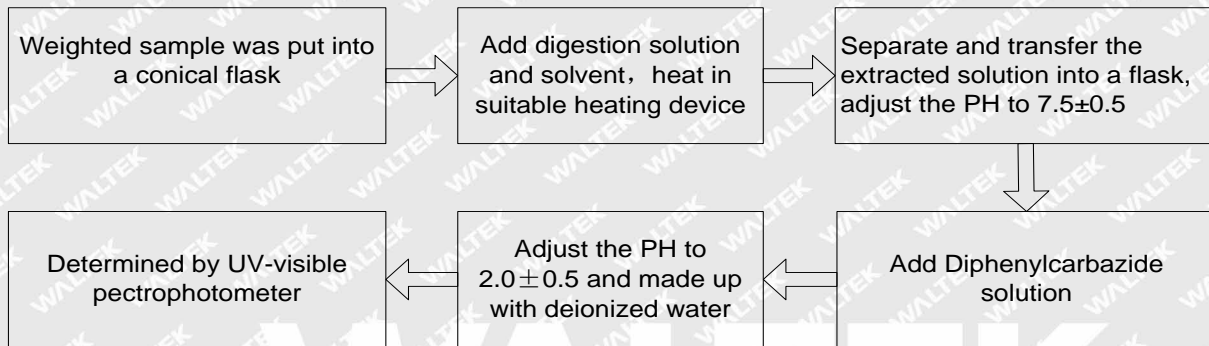


**Testing Flow chart:**

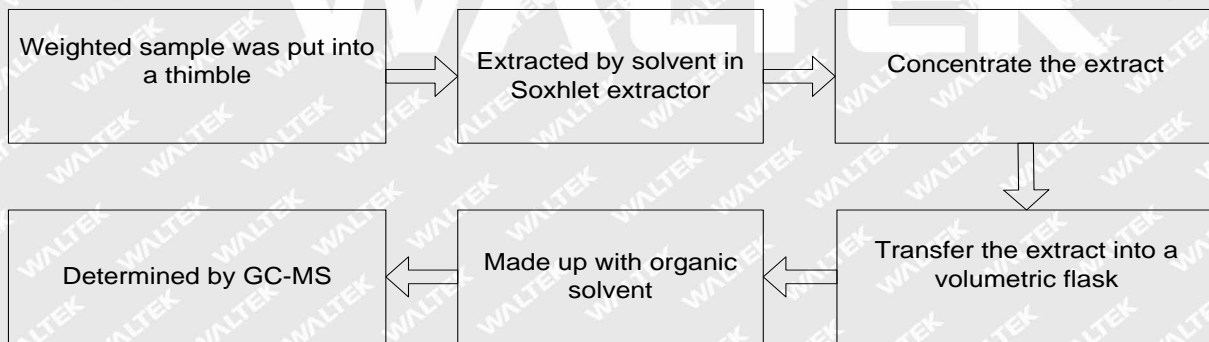
**1. Test for Cd/ Pb/ Hg contents**



**2. Test for Cr<sup>6+</sup> content**



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





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**备注/ Remarks:**

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