

检测报告
Test Report报告编号 SCL01I00495203E
Report No. SCL01I00495203E第 1 页 共 9 页
Page 1 of 9申请单位 广州市鸿利光电股份有限公司
Applicant GUANGZHOU HONGLI OPTO-ELECTRONIC CO.,LTD.
地址 广州市花都区花东镇先科一路 1 号
Address NO.1 XIANKE YI ROAD,HUADONG TOWN,HUADU DISTRICT,
GUANGZHOU,CHINA.

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client样品名称 LED LAMP
Sample Name LED LAMP
样品接收日期 2016.01.19
Sample Received Date Jan. 19, 2016
样品检测日期 2016.01.19-2016.01.26
Testing Period Jan. 19, 2016 to Jan. 26, 2016检测要求 请参见下页。
Test Requested Please refer to the following page(s).检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).主 检
Tested by审 核
Reviewed by批准
Approved by日 期
Date

2016.01.26



刘少蔚

技术经理 Technical Manager

华测检测认证集团股份有限公司
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结论 Conclusion

测试样品 Tested Sample	依据指令 According to directive	结果 Result
提交样品 Submitted Sample	欧盟 RoHS 指令 2011/65/EU 及其修订指令 (EU) 2015/863 RoHS Directive 2011/65/EU with amendment (EU) 2015/863	合格 Pass

合格表示检测结果不超过欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863 要求的限值。

Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

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检测要求 根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)进行测试。

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), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
	IEC 62321-7-1:2015	
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	参考 EN 14372:2004(E) Refer to EN 14372:2004(E)	GC-MS

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL	限值 Limit
	(1)	(2)		
铅 Lead (Pb)	N.D.	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	---	N.D.	2 mg/kg	1000 mg/kg
	N.D. (阴性) (Negative)	---	0.02 μ g/cm ²	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	(2)		
多溴联苯 Polybrominated Biphenyls(PBBs)			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 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	

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检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	(2)		
邻苯二甲酸酯 Phthalates			
邻苯二甲酸二正丁酯 Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄酯 Benzylbutyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸(2-乙基己基)酯 Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试样品/部位描述 Tested Sample/Part Description

- (1) 带有银白色镀层的金属 Metal with silver-white plating
(2) 透明本体（整体测试） Transparent body(Tested as a whole)[#]

备注: 对于检测铅, 镉, 汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

-阴性=不含有六价铬, 即由样品所萃取出来的溶液中的六价铬的浓度小于
0.10 $\mu\text{g}/\text{cm}^2$

-[#]按照目前手段, 样品无法进一步拆分, 样品整体测试, 测试结果不代表整体测试样品中任何一种单一材质的含量。

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

-Negative = Absence of Cr (VI). The Cr (VI) concentration detected in the boiling water extraction solution is less than 0.10 $\mu\text{g}/\text{cm}^2$

-[#]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.

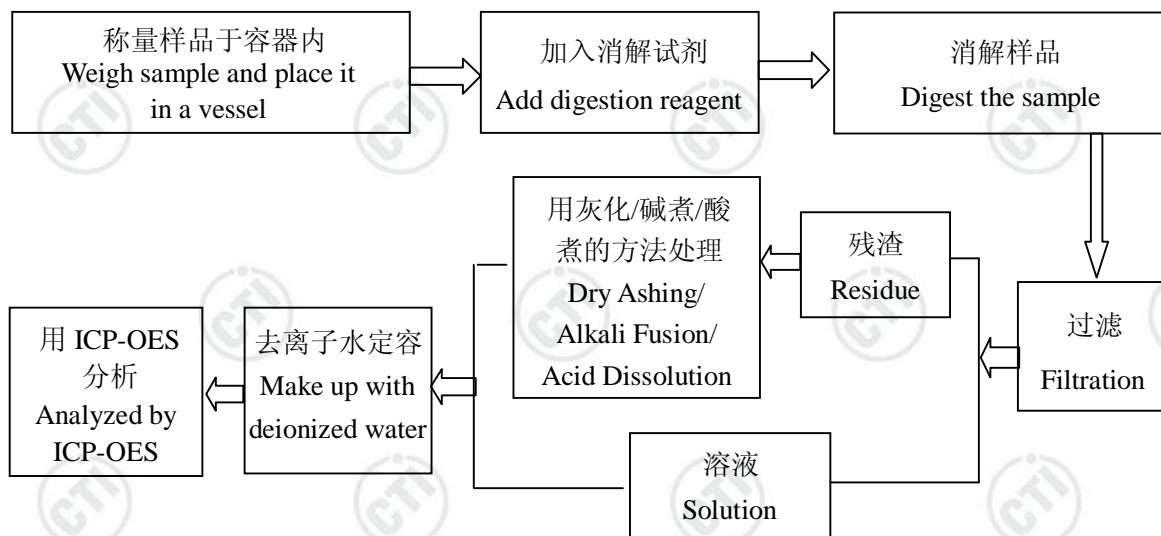
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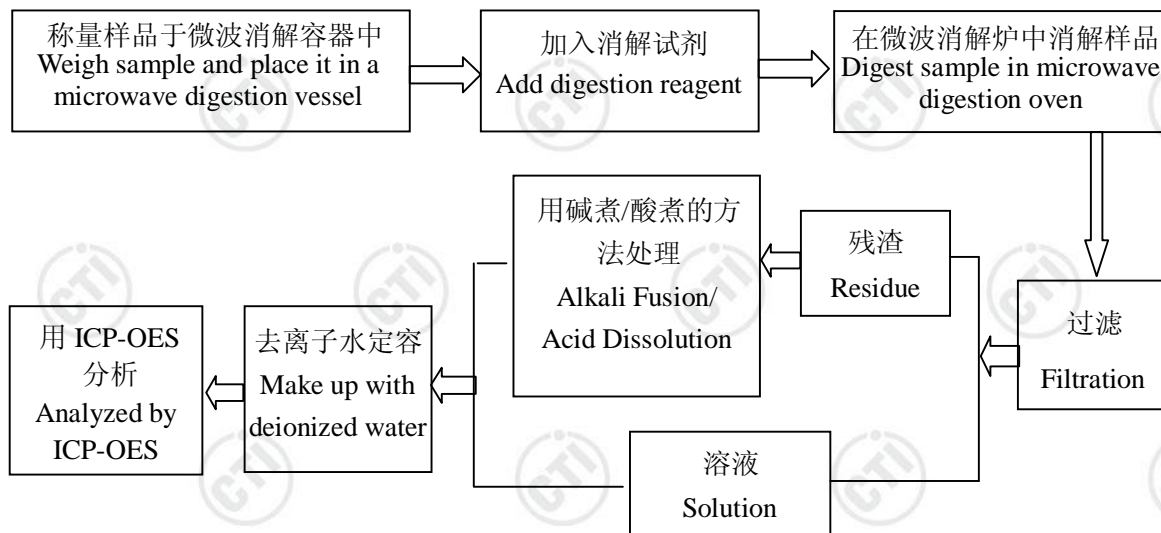
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检测流程 Test Process

1. 铅 Lead(Pb), 镉 Cadmium(Cd)



2. 汞 Mercury(Hg)



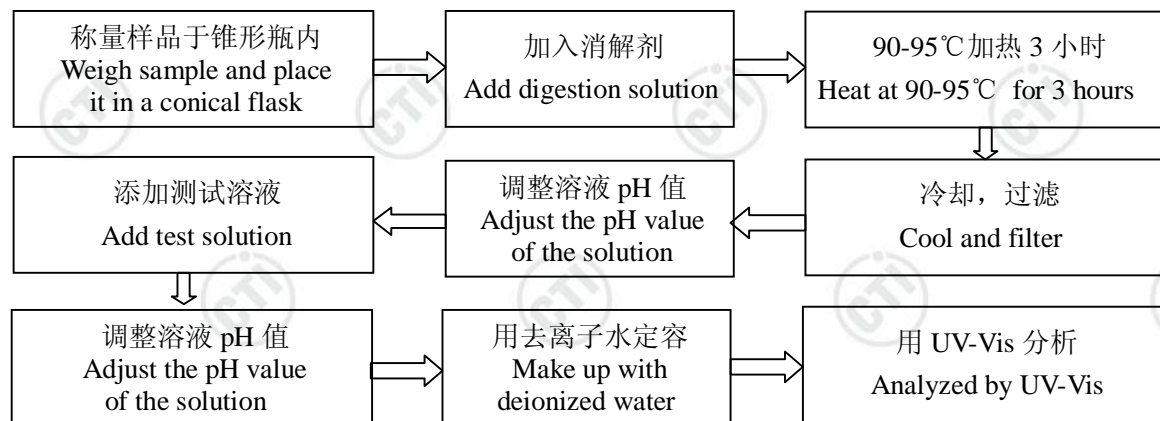
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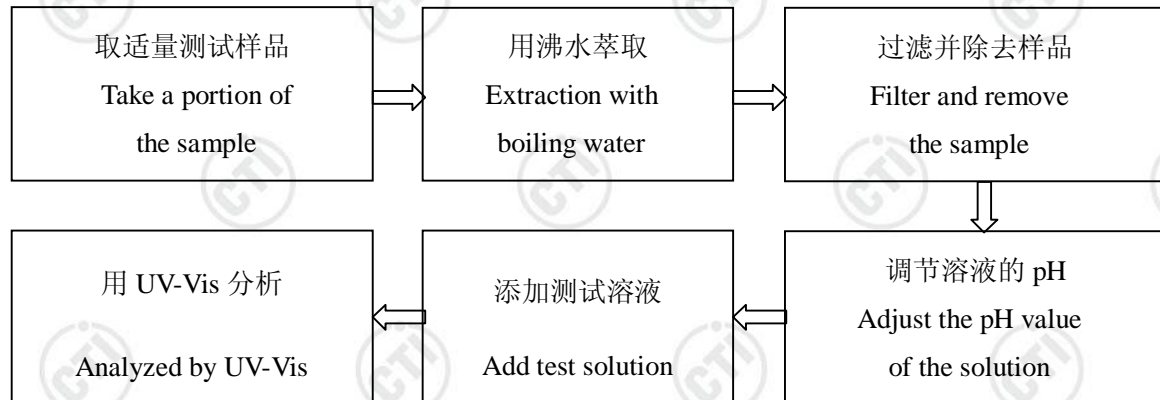
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3. 六价铬 Hexavalent Chromium (Cr(VI))

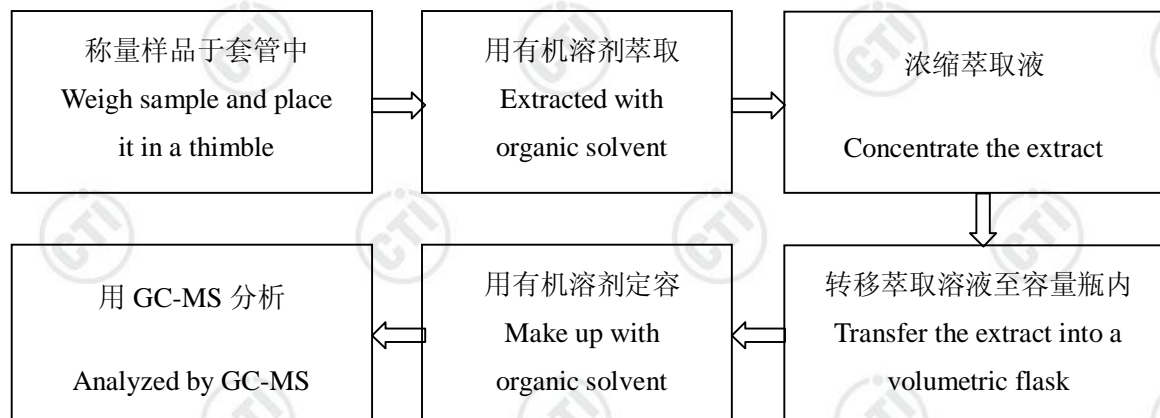
(1) IEC 62321:2008 Ed.1 Annex C



(2) IEC 62321-7-1:2015



4. 多溴联苯 Polybrominated Biphenyls(PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)



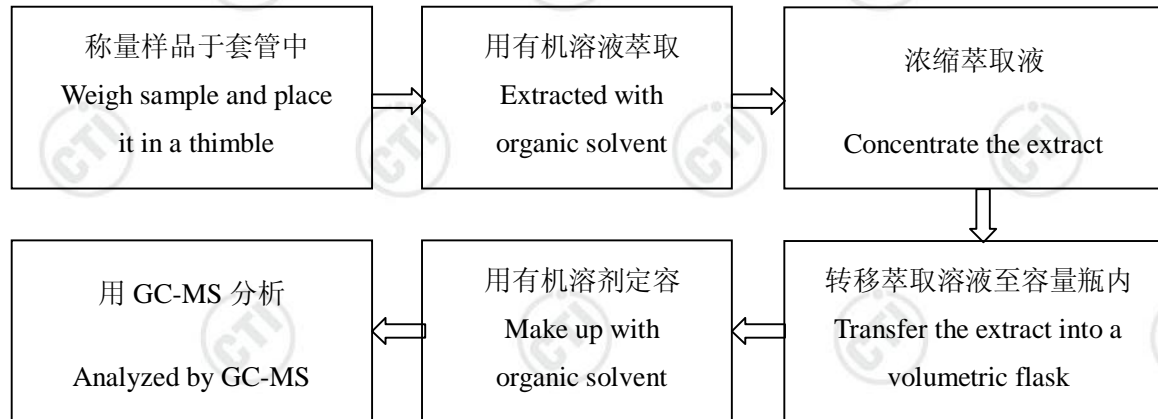
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5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



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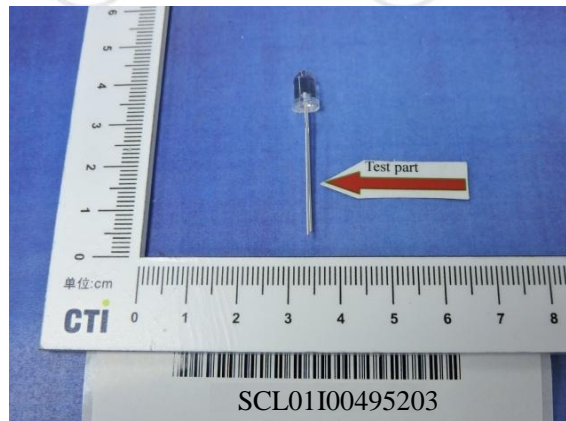
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样品图片

Photo(s) of the sample(s)

(1)



(2)



*** 报告结束 ***

*** End of Report ***

检测报告无批准人签字及“报告专用章”无效，本报告检测结果仅对受测样品负责。未经 CTI 书面同意，不得部分复制本报告。

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.