

# Test Report

Report No.: RGST160809101

Date: Aug 11, 2016

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**Applicant** : LIGHTSTEC CO., LIMITED  
**Address** : 9# Building, 6# Wanle East Road, Lianfeng South Road, ShengFeng, Xiaolan Town,  
Zhongshan, Guangdong, China  
**Report on the submitted sample(s) said to be:**  
**Sample(s) Name** : PROFILE FOR STRIP LIGHT  
**Brand** : LIGHTSTEC  
**Item No.** : LT-1608, LT-XXXX(1-9)  
**Manufacturer** : LIGHTSTEC CO., LIMITED  
**Country of Origin** : CHINA  
**Sample(s) received date** : Aug 09, 2016  
**Testing period** : From Aug 09, 2016 to Aug 10, 2016

**Test Request****Conclusion**

(1) As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr<sup>6+</sup>), Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs) content in the submitted sample(s) in accordance with Directive 2011/65/EU (RoHS) & its amendment Directive (EU) 2015/863.

Pass

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Prepared by:



Madeline Ma

Report Producer

Checked by:



Ma Ting

Technical Supervisor

Approved by:



Fanjun Li

Technical Manager

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**Shenzhen General Standard Testing Services Co.,Ltd**

2/F&amp;3/F-5/F East Wing, Building C10, Zhu'ao 2nd industrial zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

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## Photograph(s) of Sample



GST authenticate the photo on original report only

### Specimen Description:

No.	Test part(s) name
1	Silvery metal
2	Transparent plastic lid (support)
3	Silvery metal sheet
4	Gray-white plastic

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## Results:

### (1) Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs&PBDEs content for Directive 2011/65/EU (RoHS) & its amendment Directive (EU) 2015/863.

Test Item(s)	Test Method	Test Instrument
Lead (Pb) and Cadmium (Cd) Content	IEC 62321-5:2013	ICP - OES
Mercury (Hg) Content	IEC 62321-4:2013	ICP - OES
Chromium (VI)(Cr <sup>6+</sup> ) Content	IEC 62321 Edition 1.0:2008	UV-VIS Spectrophotometer
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6: 2015	GC-MS

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				2	4
Lead (Pb)	mg/kg	10	1000	N.D.	N.D.
Cadmium (Cd)	mg/kg	5	100	N.D.	N.D.
Mercury (Hg)	mg/kg	10	1000	N.D.	N.D.
Chromium (VI) Content	mg/kg	10	1000	N.D.	N.D.
Monobromobiphenyl	mg/kg	10	/	N.D.	N.D.
Dibromobiphenyl	mg/kg	10	/	N.D.	N.D.
Tribromobiphenyl	mg/kg	10	/	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	10	/	N.D.	N.D.
Pentabromobiphenyl	mg/kg	10	/	N.D.	N.D.
Hexabromobiphenyl	mg/kg	10	/	N.D.	N.D.
Heptabromobiphenyl	mg/kg	10	/	N.D.	N.D.
Octabromobiphenyl	mg/kg	10	/	N.D.	N.D.
Nonabromodiphenyl	mg/kg	10	/	N.D.	N.D.
Decabromodiphenyl	mg/kg	10	/	N.D.	N.D.
Sum of PBBs	mg/kg	/	1000	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	10	/	N.D.	N.D.

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Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				2	4
Tetrabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	10	/	N.D.	N.D.
Sum of PBDEs	mg/kg	/	1000	N.D.	N.D.

Test item(s)	Unit	MDL	RoHS Limit	Result(s)	
				1	3
Lead (Pb)	mg/kg	10	1000	N.D.	N.D.
Cadmium (Cd)	mg/kg	5	100	N.D.	N.D.
Mercury (Hg)	mg/kg	10	1000	N.D.	N.D.
Chromium (VI) Content	/	*	#	Negative	Negative

## Note:

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit
- Negative = Absence of CrVI coating
- \* = The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.
- # = Positive indicates the presence of Cr (VI) on the tested areas and result be regarded as not comply with RoHS requirement.
- # = Negative indicates the absence of Cr (VI) on the tested areas and result be regarded as comply with RoHS requirement.

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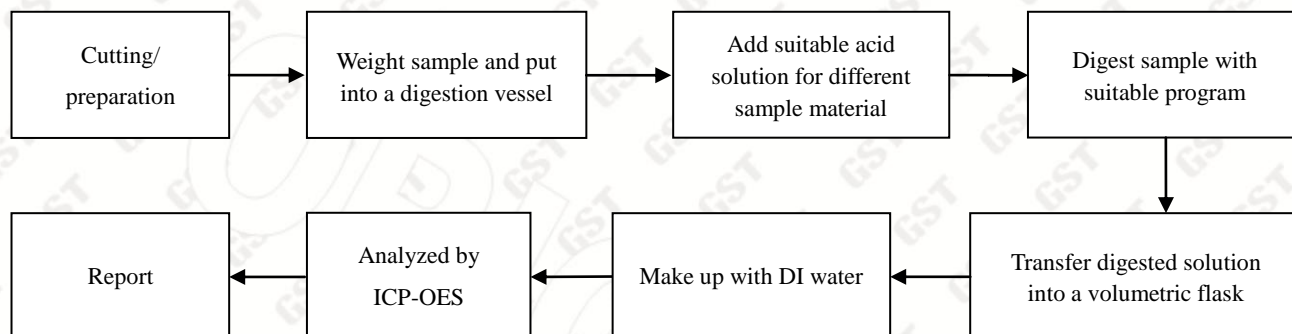
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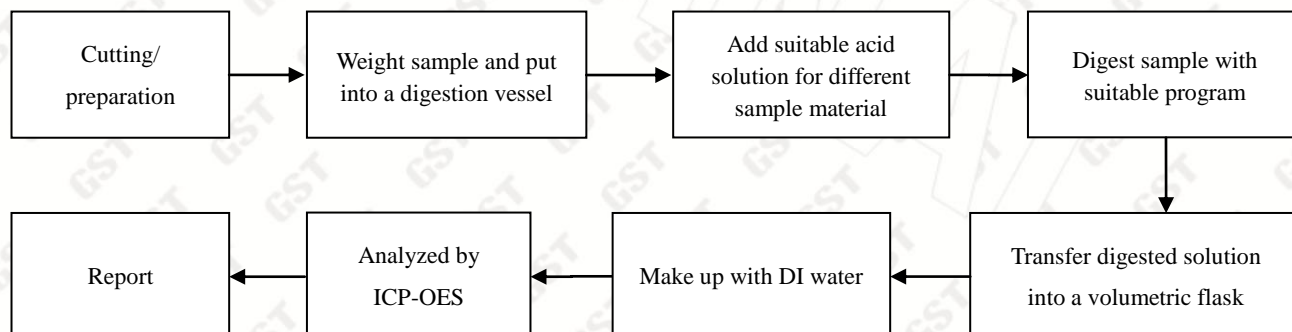
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## Appendix

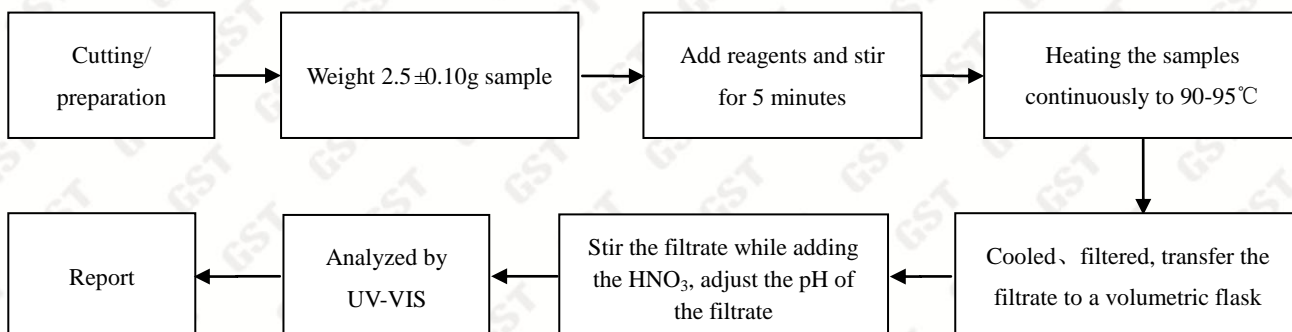
### 1. Test flowchart for Pb / Cd content:



### 2. Test flowchart for Hg content:



### 3. Test flowchart for Cr<sup>6+</sup> content in non-metallic material:



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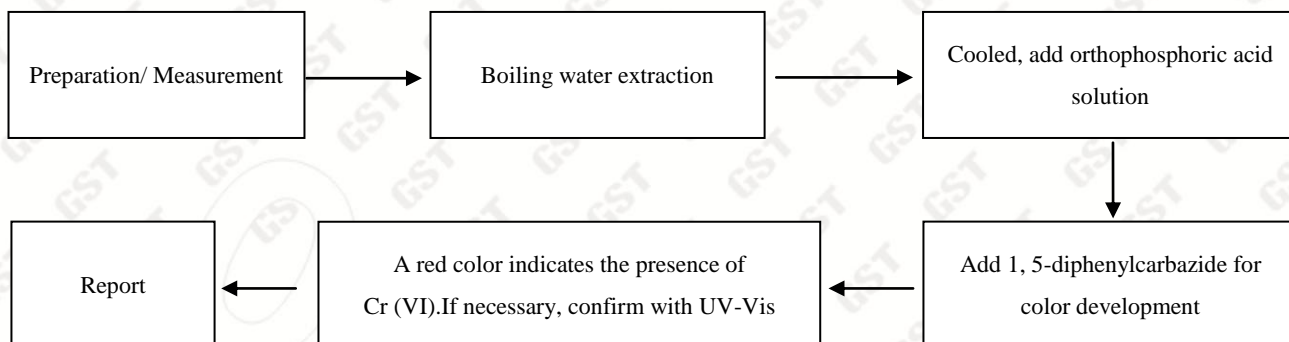
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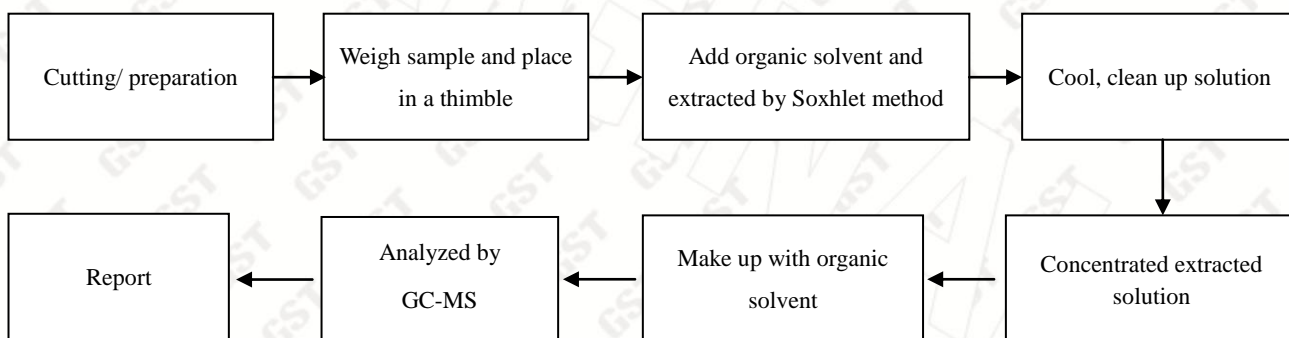
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## 4. Test flowchart for Cr<sup>6+</sup> content in metallic material:



## 5. Test flowchart for PBBs & PBDEs content:



\*\*\* End of Report \*\*\*

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