

RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 1 of 9

Applicant : ANHUI SHILIN LIGHTING CO.,LTD

Address : ECONOMIC DEVELOPMENT ZONE, HUOSHAN, LUAN, ANHUI,
CHINA

Client ID : CB4372

Manufacturer : Same As Holder



Report Query



Report on the submitted sample said to be

Sample Name : LED BULB

Model No. : GU10, C37, G45, A60, A65, A70, A80, R39, R50, R63, R80, R90, G80, G95,
G120, F-C35, F-G45, F-A60, F-ST64, F-G80, F-G95, F-G125

Sample model : A60

Sample Received Date : 2023-12-12

Complete Date : 2023-12-19

Test Requested : As specified by client, to determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs / PBDEs, Bis-(2-ethylhexyl) Phthalate (DEHP), Diisobutyl phthalate(DIBP), Dibutyl Phthalate (DBP) & Benzylbutyl Phthalate (BBP) content in the submitted sample.

Test Result(s) : Conform to RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102.

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Written by: Sebera Li Inspected by: Austin Zhong

(Sebera Li)

(Austin Zhong)

Approved by: Martin Wang

(Martin Wang)



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RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 2 of 9

Test Method: With reference to IEC 62321-3-1:2013, IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015 , IEC 62321-7-2:2017, IEC 62321-8:2017, EN IEC 63000:2018

- (1) Determination of Cadmium by ICP-OES.
- (2) Determination of Lead by ICP-OES.
- (3) Determination of Mercury by ICP-OES.
- (4) Determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
- (5) Determination of PBBs / PBDEs content by GC-MS.
- (6) Determination of phthalates by GC-MS.

Test Result(s):

Test item	Unit	Limit	Result			
			Wick (1)	Metal part of bottom (2)	Bubber ring (3)	PCB (4)
Cadmium (Cd).	mg/kg	100	N.D.	N.D.	N.D.	16.2638
Lead (Pb).	mg/kg	1000	N.D.	40.709	N.D.	5.9294
Mercury (Hg).	mg/kg	1000	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr VI).	mg/kg	1000	N.D.	N.D.	N.D.	N.D.
Polybrominated Biphenyls (PBBs)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.

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RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 3 of 9

Test item	Unit	Limit	Result			
			Wick (1)	Metal part of bottom (2)	Bubber ring (3)	PCB (4)
Nonabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenyl Ethers (PBDEs)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate(DIBP)	mg/kg	1000	N.D.	N/A	N.D.	N.D.
Dibutyl Phthalate (DBP)	%(w/w)	1000	N.D.	N/A	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	%(w/w)	1000	N.D.	N/A	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	%(w/w)	1000	N.D.	N/A	N.D.	N.D.

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RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 4 of 9

Test item	Unit	Limit	Result		
			Bulb shell (5)	Plastic part of bottom (6)	Capacitance (7)
Cadmium (Cd).	mg/kg	100	2.7255	N.D.	6.4365
Lead (Pb).	mg/kg	1000	113.6857	12.6174	N.D.
Mercury (Hg).	mg/kg	1000	N.D.	2.5945	N.D.
Hexavalent Chromium (Cr VI).	mg/kg	1000	N.D.	N.D.	N.D.
Polybrominated Biphenyls (PBBs)	mg/kg	1000	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	/	N.D.	N.D.	N.D.
Polybrominated Diphenyl Ethers (PBDEs)	mg/kg	1000	N.D.	N.D.	N.D.
Monobromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Dibromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.

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RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 5 of 9

Test item	Unit	Limit	Result		
			Bulb shell (5)	Plastic part of bottom (6)	Capacitance (7)
Tribromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Tetrabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Pentabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Hexabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Heptabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Octabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Nonabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Decabromodiphenyl Ether	mg/kg	/	N.D.	N.D.	N.D.
Diisobutyl phthalate(DIBP)	mg/kg	1000	N/A	N/A	N.D.
Dibutyl Phthalate (DBP)	%(w/w)	1000	N/A	N/A	N.D.
Benzylbutyl Phthalate (BBP)	%(w/w)	1000	N/A	N/A	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	%(w/w)	1000	N/A	N/A	N.D.

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (<MDL)
3. N/A = Not Applicable
4. MDL = Method detection limit

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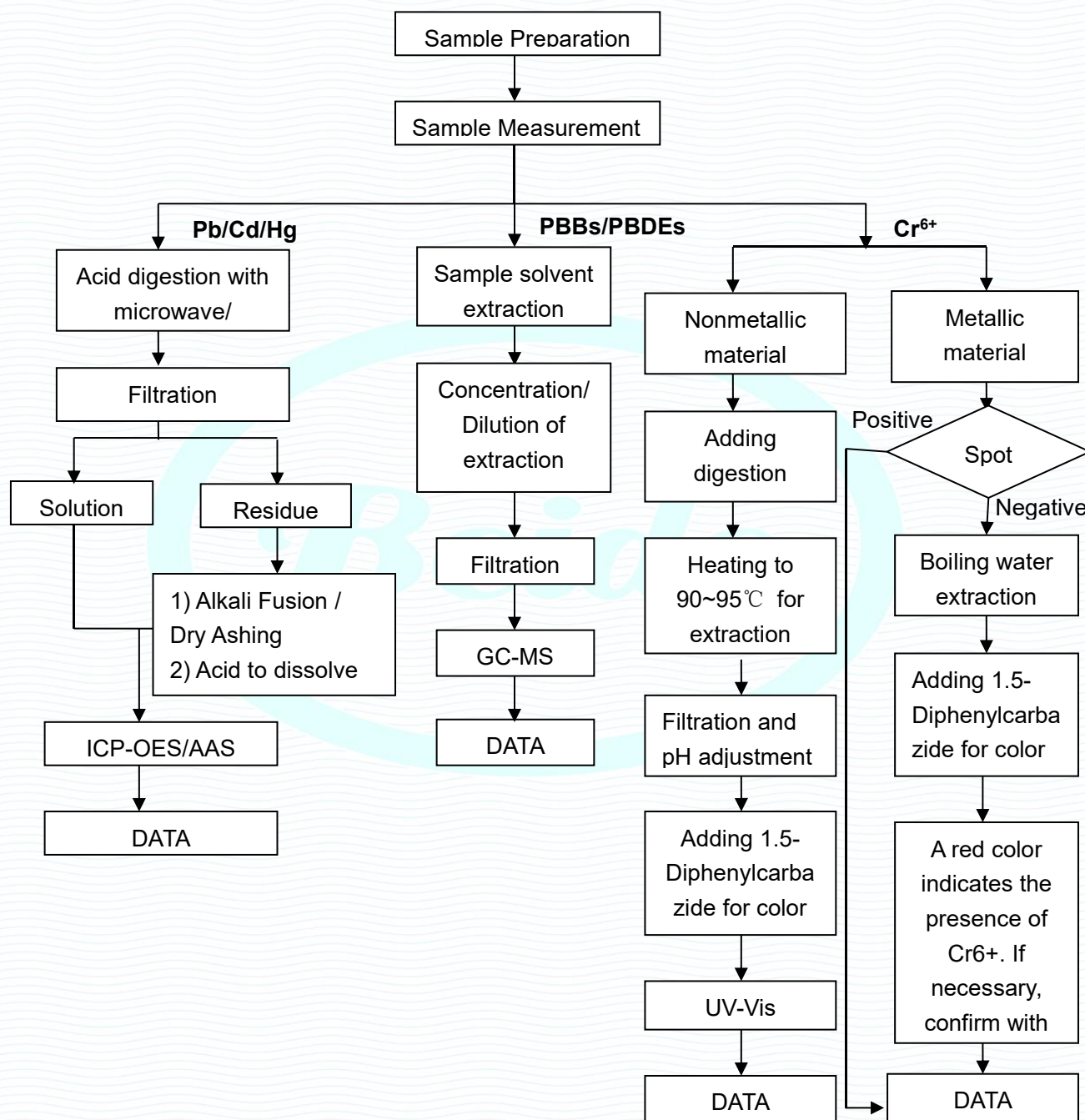
RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 6 of 9

RoHS Testing Flow Chart



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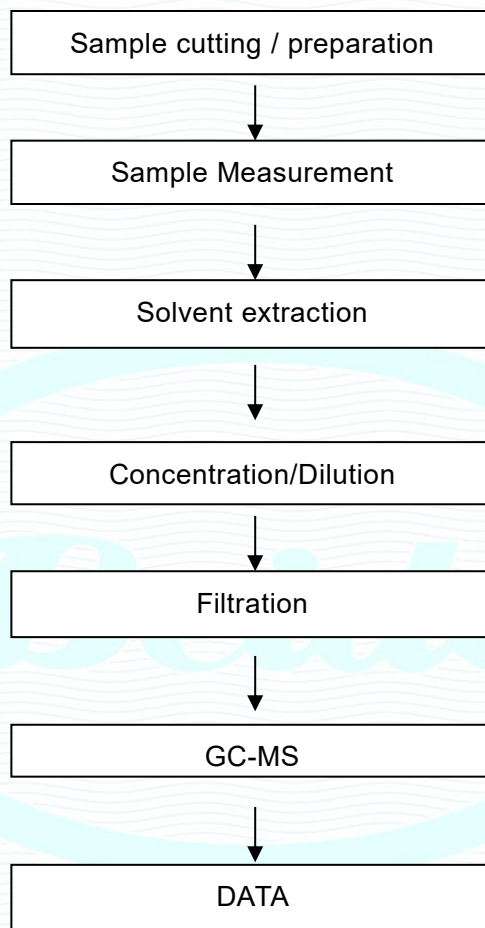
RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 7 of 9

Phthalates Testing Flow Chart



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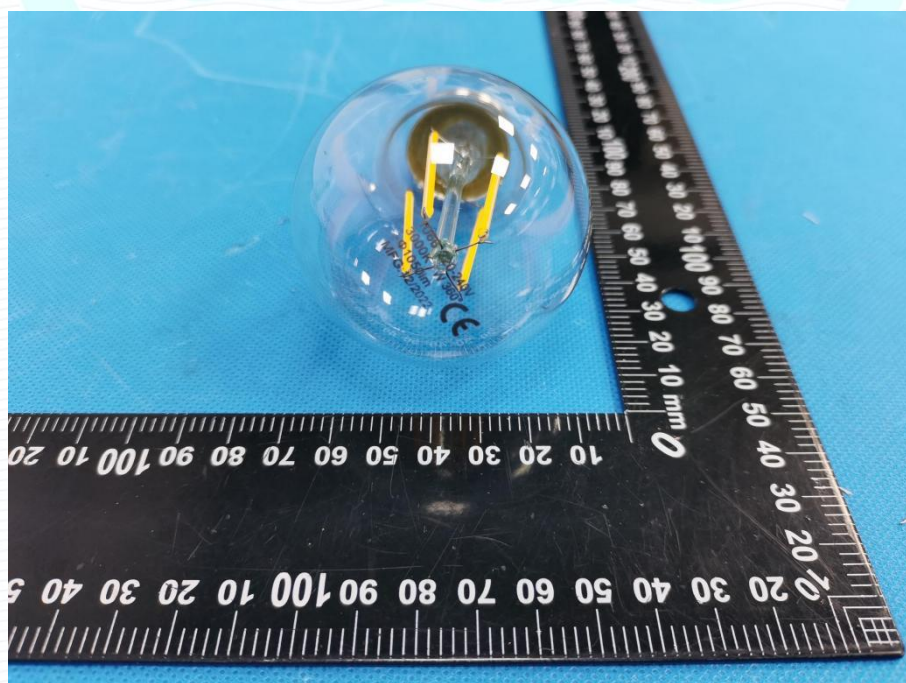
RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 8 of 9

Photographs of Samples



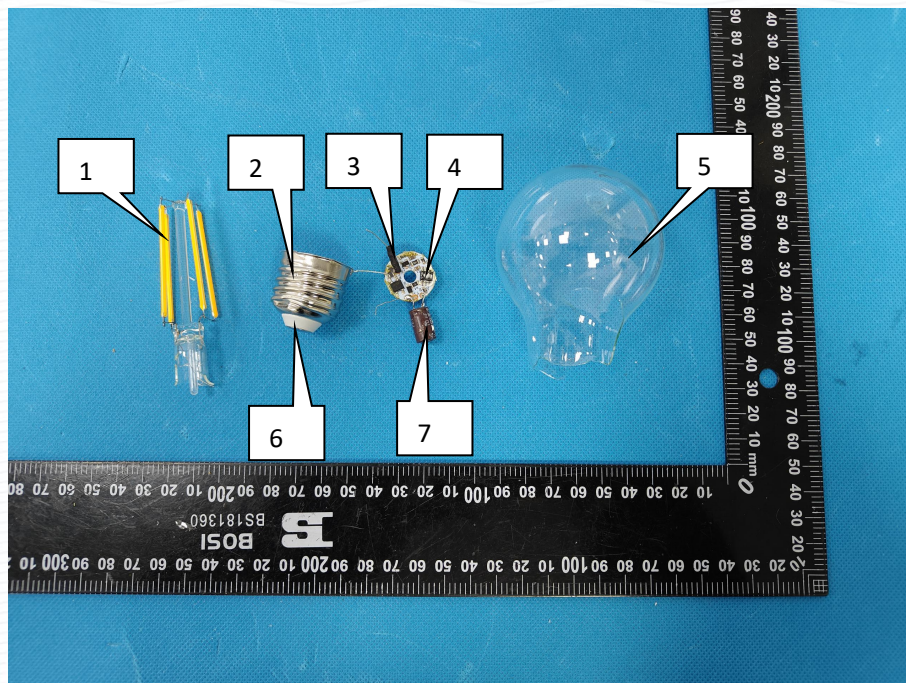
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RoHS TEST REPORT

Report No. : B-R2312B4696

Date: 2023-12-19

Page 9 of 9



End of Report

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