# Test Report

Report No: BST190312055601CR Date: Mar.29, 2019 Page 1 of 6

**Applicant** : LEKOLED TECHNOLOGY CORPORATION.

**Address** : 3rd Floor, WeiQun Industrial Park, BaiHua Community, GuangMing District, Shenzhen, China.

The following sample(s) was /were submitted and identified on behalf ofthe clients as:

**Sample Name** : SMD LED

**Trade Name** : 0.2W 2835 SMD

**Sample Model** : Mar.25, 2019

**Sample Received Date** : Mar.25, 2019 To Mar.28, 2019

**Testing Period**

**Test Requested** : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.

**Test Method** : Please refer to next page(s).

**Test Result** : Please refer to next page(s).

**Signed for and on behalf of**

**Tony Qian/ Approved Signatory**

# Test Report



**Test Content:**

| Test Item(s) | Test Method | Reference | Unit | Limit | MDL |
|---|---|---|---|---|---|
| Cadmium(Cd) | IEC 62321-5:2013 | ICP-OES | mg/kg | 100 | 2 |
| Lead(Pb) | IEC 62321-5:2013 | ICP-OES | mg/kg | 1000 | 2 |
| Mercury(Hg) | IEC 62321-4:2013+AMD1:2017 | ICP-OES | mg/kg | 1000 | 2 |
| Hexavalent Chromium(CrVI) (Metal) | IEC 62321-7-1:2015 | UV-Vis | $\mu g/cm^2$ | 0.13 | 0.1 |
| Hexavalent Chromium(CrVI) (Nonmetal) | IEC 62321-7-2:2017 | UV-Vis | mg/kg | 1000 | 8 |
| PBBs (Next form) | IEC 62321-6:2015 | GC-MS | mg/kg | 1000 | 5 |
| PBDEs (Next form) | IEC 62321-6:2015 | GC-MS | mg/kg | 1000 | 5 |
| Dibutyl Phthalate(DBP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |
| Butyl benzyl phthalate (BBP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |
| Di-(2-ethylhexyl) Phthalate(DEHP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |
| Diisobutyl phthalate (DIBP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |

| PBBs | | PBDEs | |
|---|---|---|---|
| Monobromobiphenyl | Hexabromobiphenyl | Monobromodiphenyl ether | Hexabromodiphenyl ether |
| Dibromobiphenyl | Heptabromobiphenyl | Dibromodiphenyl ether | Heptabromodiphenyl ether |
| Tribromobiphenyl | Octabromobiphenyl | Tribromodiphenyl ether | Octabromodiphenyl ether |
| Tetrabromobiphenyl | Nonabromobiphenyl | Tetrabromodiphenyl ether | Nonabromodiphenyl ether |
| Pentabromobiphenyl | Decabromobiphenyl | Pentabromodiphenyl ether | Decabromodiphenyl ether |

# Test Report



**Sample Description:**

| No. | Description | Name |
|---|---|---|
| 1 | Plastic | White Plastic |
| 2 | Phosphor | Yellow Phosphor |
| 3 | Metal | Silver Metal |

**Test Result:**

| Test Item(s) | No.1 | No.2 | No.3 |
|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. |
| Hexavalent Chromium (CrVI) | N.D. | N.D. | N.D. |
| PBBs | N.D. | N.D. | -- |
| PBDEs | N.D. | N.D. | -- |
| Dibutyl Phthalate (DBP) | N.D. | N.D. | -- |
| Butyl benzyl phthalate (BBP) | N.D. | N.D. | -- |
| Di-(2-ethylhexyl) Phthalate(DEHP) | N.D. | N.D. | -- |
| Diisobutyl phthalate (DIBP) | N.D. | N.D. | -- |

**Note:** 1. mg/kg= ppm

2. N.D.= Not Detected(<MDL)

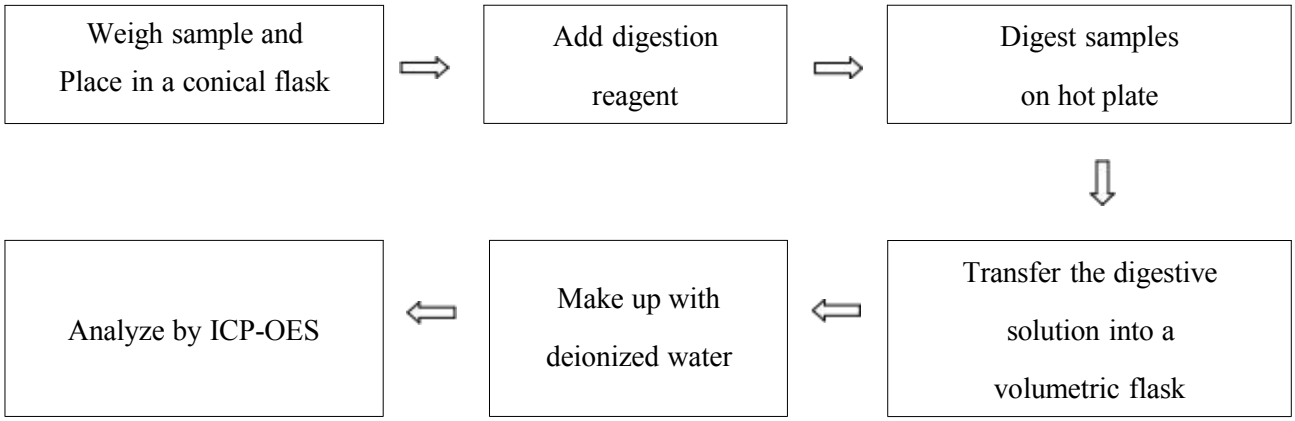
3. MDL = Method Detection Limit

4. -- = No Testing

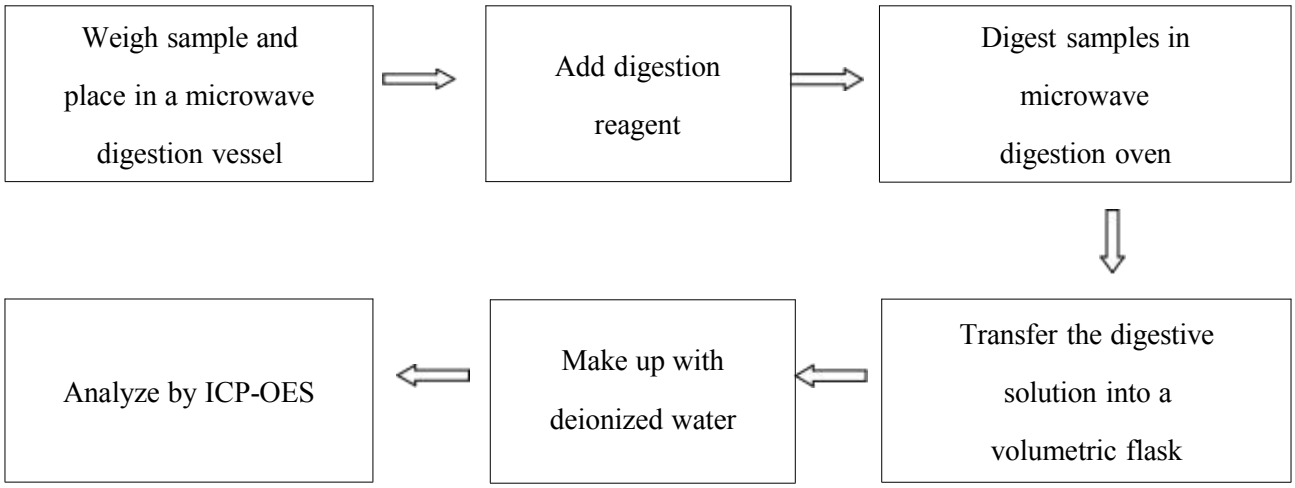
5. when Cr(VI) in a sample is detected below the 0.10 μg/cm$^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 μg/cm$^2$ and 0.13 μg/cm$^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 μg/cm$^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

**Test Process:**

1. Test for Cd/Pb Content

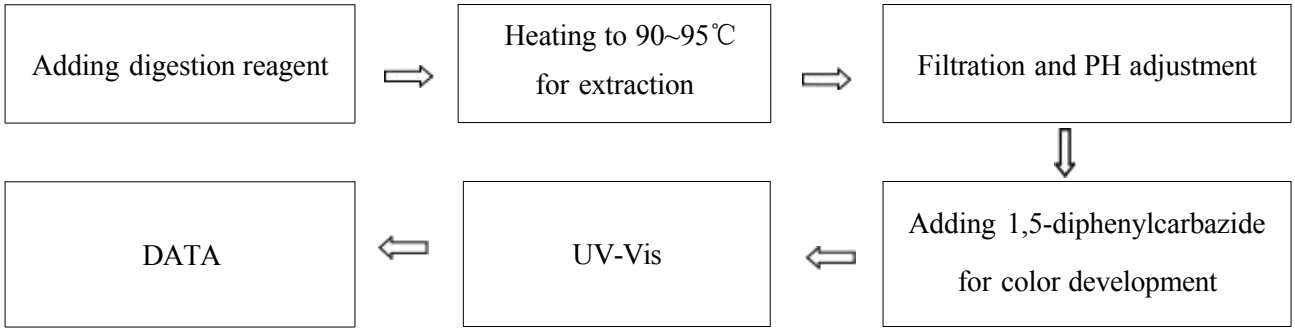



2. Test for Hg Content

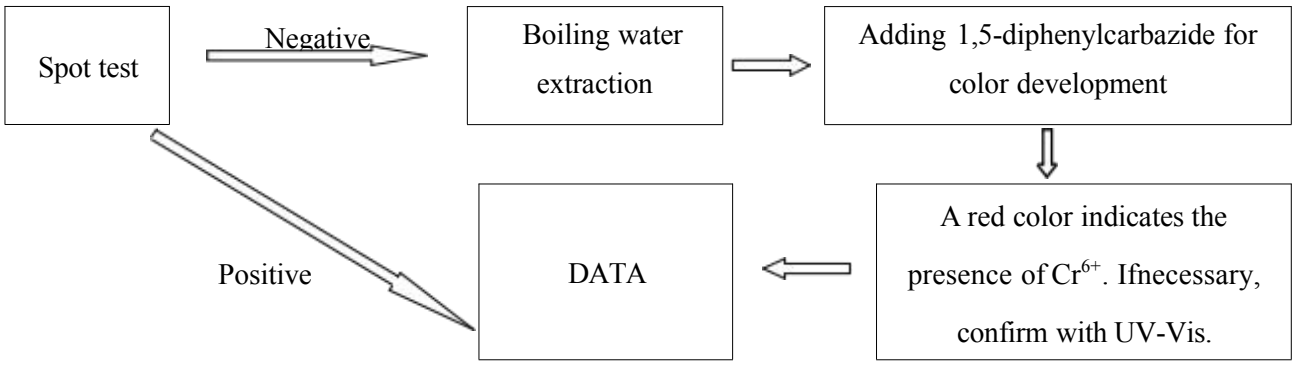


3. Test for Chromium (VI) Content

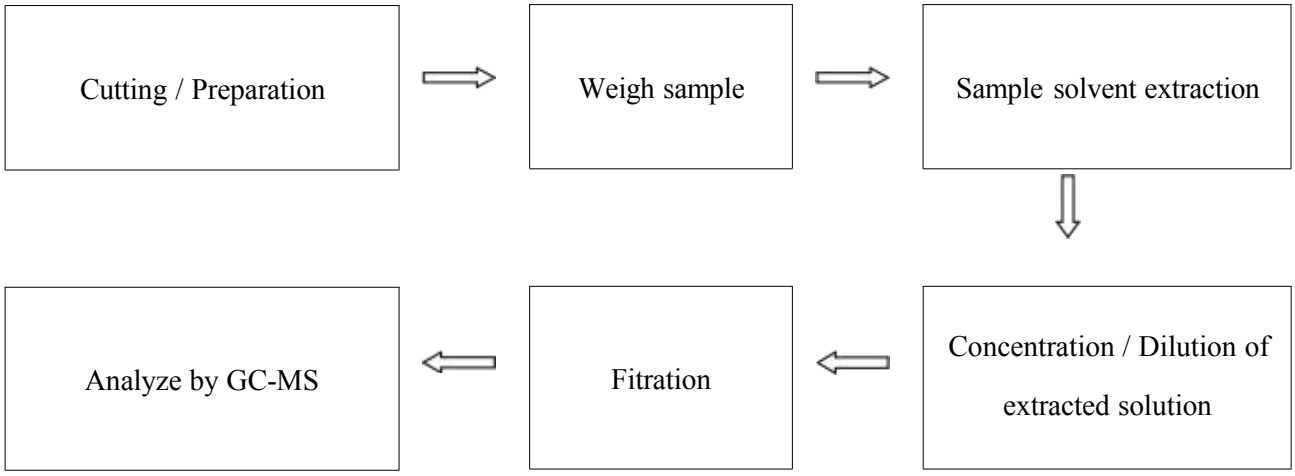
Nonmetal material




Metal material



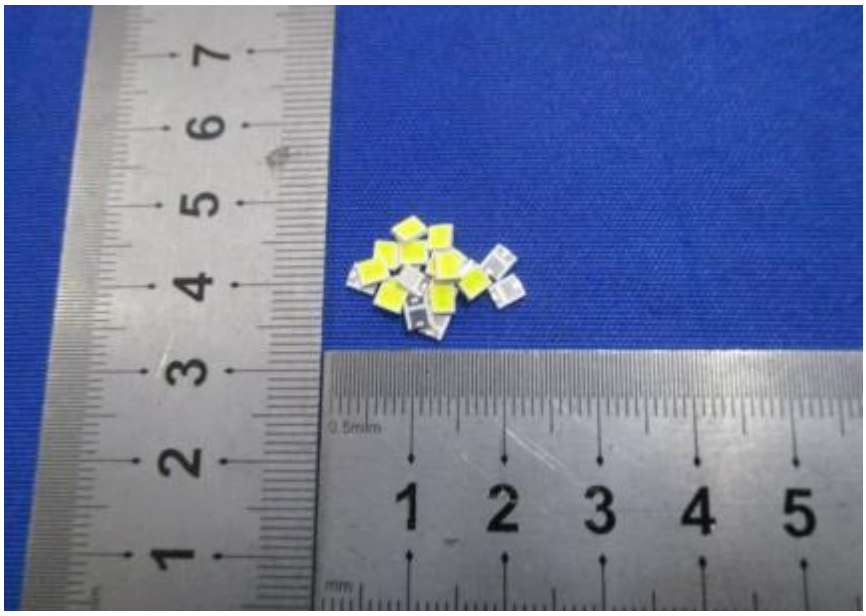

4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



# Test Report



**Sample Photo:**



*** End of Report ***



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