**Test Report** Number: SHAH01849209

Applicant: SHANDONG HUABAO PIGMENT CO.,LTD.
NO.515 YUSHAN ROAD,LUSHAN INDUSTRIAL
YISHUI COUNTY,LINYI,SHANDONG,CHINA
山东华宝颜料有限公司
山东省沂水县庐山工业园区玉山路 515 号

Date: 05 Aug, 2025

Attn: GRACE

Sample Description:
One ( 1 ) group of submitted sample said to be :

| | | |
|---|---|---|
| Item Name | : | Pigment Yellow 180 |
| Item No. | : | PY180 |
| Quantity | : | 30G each |
| Goods Exported To | : | Europe, Southeast Asia, Japan and South Korea |
| Country Of Origin | : | China |
| 样品描述: | | |
| 品名 | : | 颜料黄 180 |
| 品号 | : | PY180 |
| 样品数量 | : | 各 30G |
| 目的地 | : | 欧洲 东南亚 日韩 |
| 原产地 | : | 中国 |

**********

Tests Conducted:
As requested by the applicant, for details refer to attached page(s).

**********
**********

检验项目:
按客户要求,详见续页

**********

To be continued
见续页

Authorized By:
Intertek Testing Services Ltd. Zhejiang

Bobo Yao
Assistant General Manager

INTERTEK TESTING SERVICES LTD. ZHEJIANG 浙江天祥质量技术服务有限公司 检验检测专用章 (1)



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**浙江天祥质量技术服务有限公司**

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Zip:314400
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**www.intertek.com.cn**

**Test Report** Number： SHAH01849209

**Conclusion：**

| Tested Component | Standard | Result |
|---|---|---|
| Tested Component Of Submitted Sample | Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863) | Pass |
| Tested Component Of Submitted Sample | Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863) | Pass |

**结论:**

| 测试部件 | 标准 | 结论 |
|---|---|---|
| 送检样品的测试部件 | 电子电气设备中有毒有害物质的限量要求 (RoHS 指令2011/65/EU和(EU)2015/863) | 合格 |
| 送检样品的测试部件 | 电子电气设备中有毒有害物质的限量要求 (RoHS 指令2011/65/EU和(EU)2015/863) | 合格 |

**********

To be continued
见续页

Authorized By：
Intertek Testing Services Ltd. Zhejiang

Bobo Yao
Assistant General Manager



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**Test Report** Number： SHAH01849209

Tests Conducted

## 1. RoHS Chemical Test

(A) Test Result Summary:

| Testing Item | Result |
|---|---|
| | (1) |
| Cadmium (Cd) Content (mg/kg) | ND |
| Lead (Pb) Content (mg/kg) | ND |
| Mercury (Hg) Content (mg/kg) | ND |
| Chromium (VI)($Cr^{6+}$) Content (mg/kg) | ND |
| Chromium (VI)($Cr^{6+}$) Result (By Boiling Water Extraction on Metal) ($\mu g/cm^2$) | - |
| Polybrominated Biphenyls (PBBs) Content (mg/kg) | |
| Monobromobiphenyl (MonoBB) | ND |
| Dibromobiphenyl (DiBB) | ND |
| Tribromobiphenyl (TriBB) | ND |
| Tetrabromobiphenyl (TetraBB) | ND |
| Pentabromobiphenyl (PentaBB) | ND |
| Hexabromobiphenyl (HexaBB) | ND |
| Heptabromobiphenyl (HeptaBB) | ND |
| Octabromobiphenyl (OctaBB) | ND |
| Nonabromobiphenyl (NonaBB) | ND |
| Decabromobiphenyl (DecaBB) | ND |
| Polybrominated Diphenyl Ethers (PBDEs) Content (mg/kg) | |
| Monobromodiphenyl Ether (MonoBDE) | ND |
| Dibromodiphenyl Ether (DiBDE) | ND |
| Tribromodiphenyl Ether (TriBDE) | ND |
| Tetrabromodiphenyl Ether (TetraBDE) | ND |
| Pentabromodiphenyl Ether (PentaBDE) | ND |
| Hexabromodiphenyl Ether (HexaBDE) | ND |
| Heptabromodiphenyl Ether (HeptaBDE) | ND |
| Octabromodiphenyl Ether (OctaBDE) | ND |
| Nonabromodiphenyl Ether (NonaBDE) | ND |
| Decabromodiphenyl Ether (DecaBDE) | ND |
| Phthalates Content (mg/kg) | |
| Bis(2-ethylhexyl)phthalate (DEHP) | ND |
| Butyl benzyl phthalate (BBP) | ND |
| Dibutyl phthalate (DBP) | ND |
| Diisobutyl phthalate (DIBP) | ND |

ND = Not detected



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**Test Report** Number： SHAH01849209

Tests Conducted
(B) RoHS Requirement:

| **Restricted Substances** | **Limits** |
|---|---|
| Cadmium (Cd) | 0.01% (100 mg/kg) |
| Lead (Pb) | 0.1% (1000 mg/kg) |
| Mercury (Hg) | 0.1% (1000 mg/kg) |
| Chromium (VI) ($Cr^{6+}$) | 0.1% (1000 mg/kg) |
| Polybrominated Biphenyls (PBBs) | 0.1% (1000 mg/kg) |
| Polybrominated Diphenyl Ethers (PBDEs) | 0.1% (1000 mg/kg) |
| Phthalates (DEHP, BBP, DBP, DIBP) | 0.1% (1000 mg/kg) |

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

| **Testing Item** | **Testing Method** | **Reporting Limit** |
|---|---|---|
| Cadmium (Cd) Content | With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES | 2 mg/kg |
| Lead (Pb) Content | With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES | 2 mg/kg |
| Mercury (Hg) Content | With reference to IEC 62321-4 Edition 1.1:2017, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES | 2 mg/kg |
| Chromium (VI)($Cr^{6+}$) Content | With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer | 10 mg/kg |
| Chromium (VI) ($Cr^{6+}$) Content | With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer. | Positive(>0.13 μg/$cm^2$) / Negative(<0.10 μg/$cm^2$) / Inconclusive(0.10μg/$cm^2$ -- 0.13 μg/$cm^2$) |
| Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content | With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary | 5 mg/kg |
| Phthalates (DEHP, BBP, DBP, DIBP) Content | With reference to IEC 62321-8 Edition 1.0:2017, by solvent extraction and determined by GC/MS | 100mg/kg |

Tested Components：See component list in the last section of this report.

Date Sample Received: Jul 24, 2025
Testing Period: Jul 24, 2025 to Jul 29, 2025



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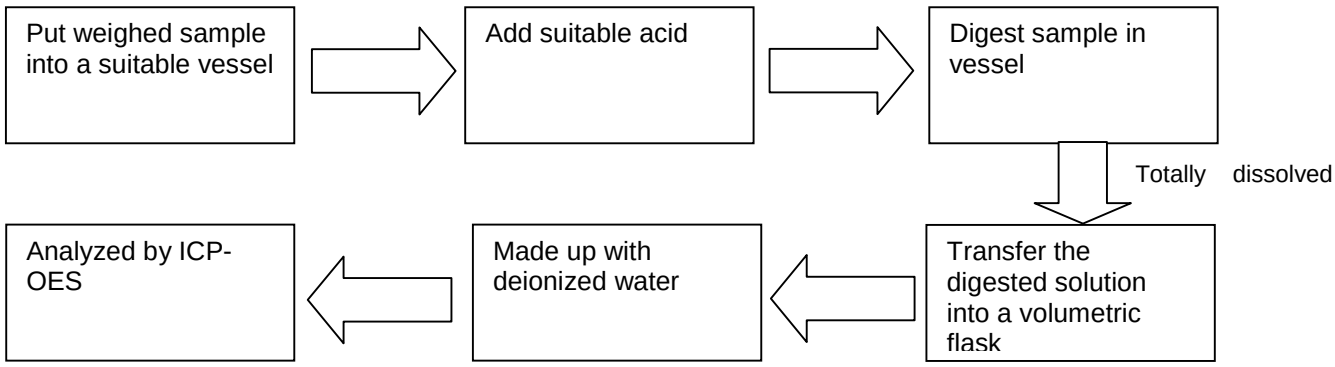
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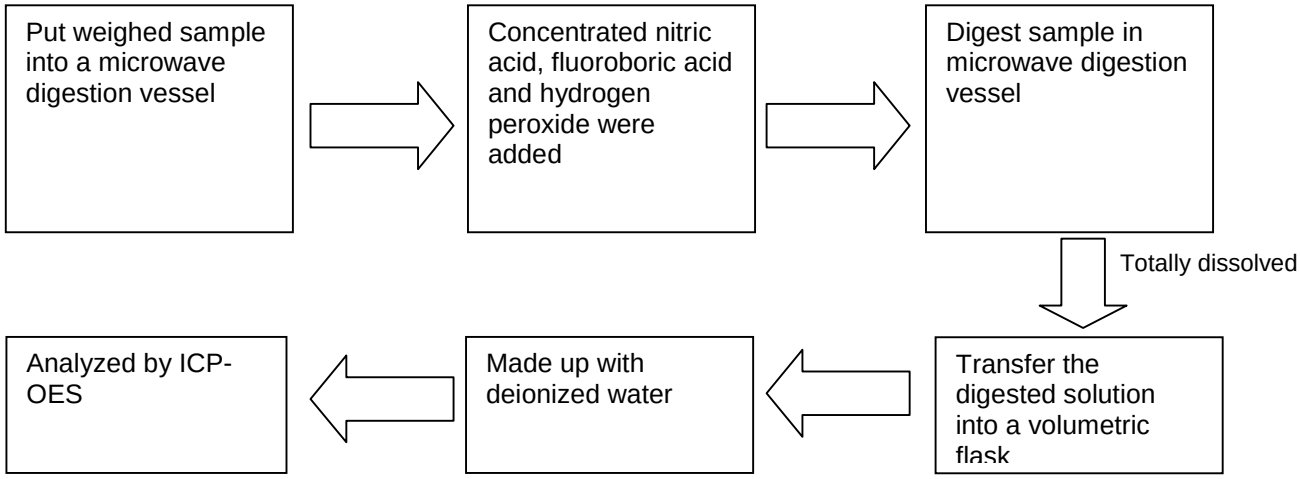
Tests Conducted

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents




2. Test for Hg Content






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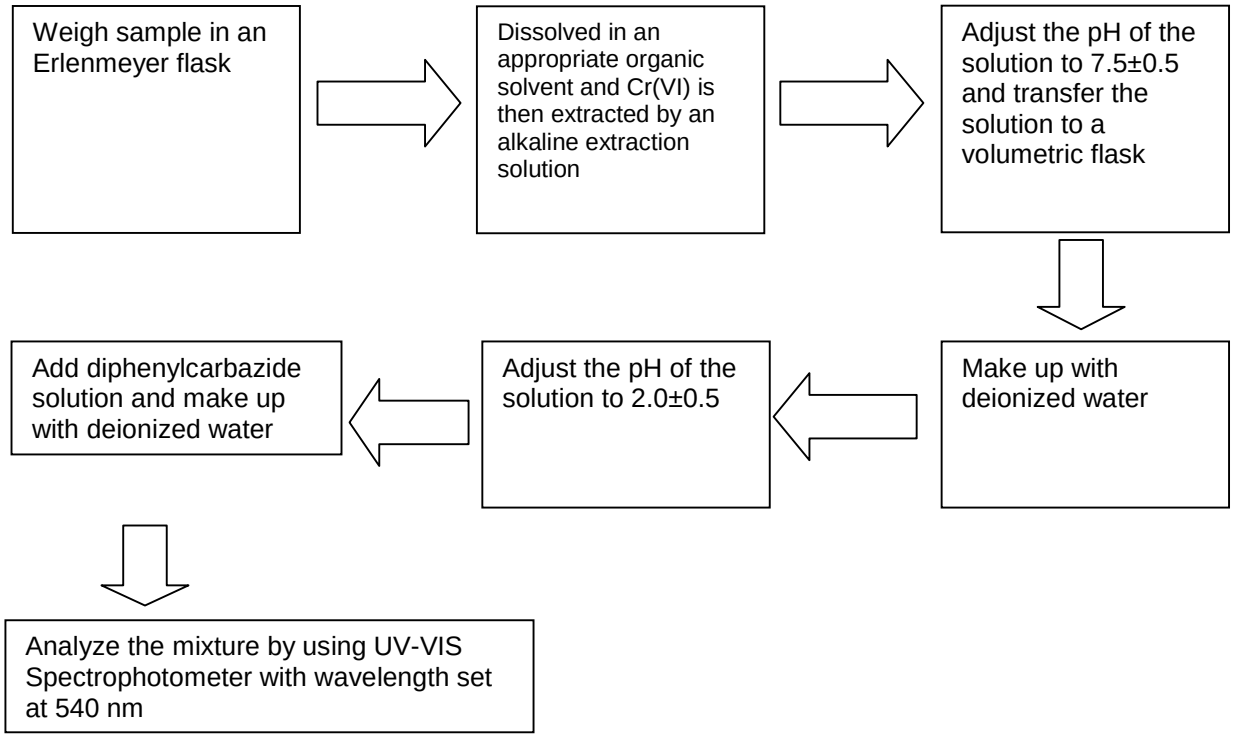
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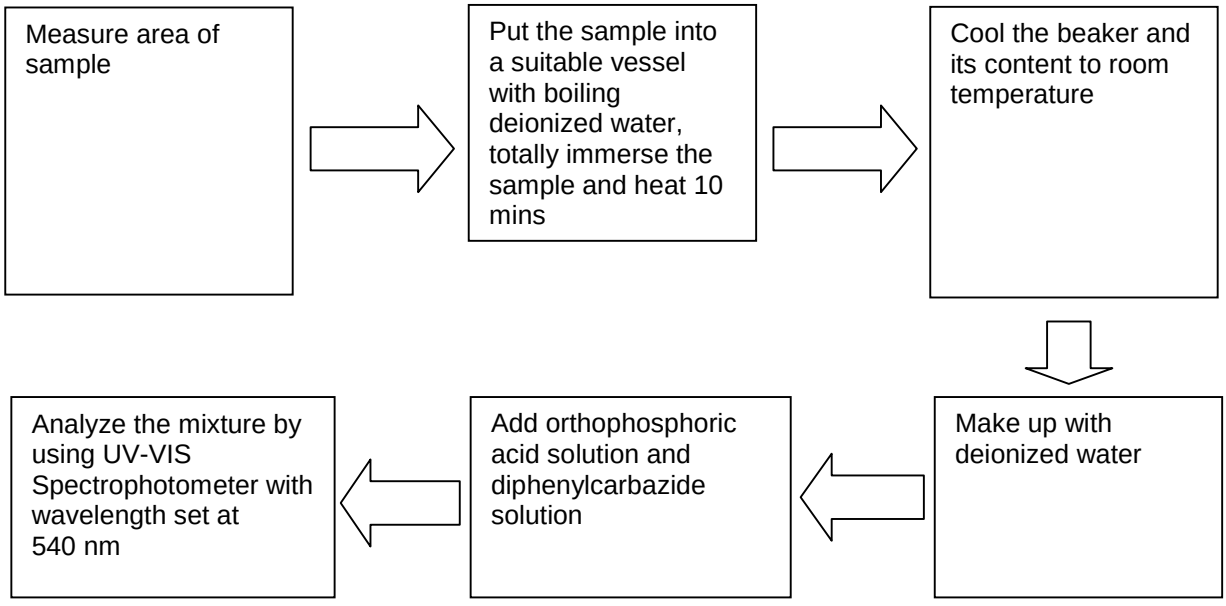
**Test Report** Number： SHAH01849209

Tests Conducted

3. Test for Chromium (VI) ($Cr^{6+}$) Content (Non-metal)




4. Test for Chromium (VI) ($Cr^{6+}$) Content (Boiling Water Extraction)






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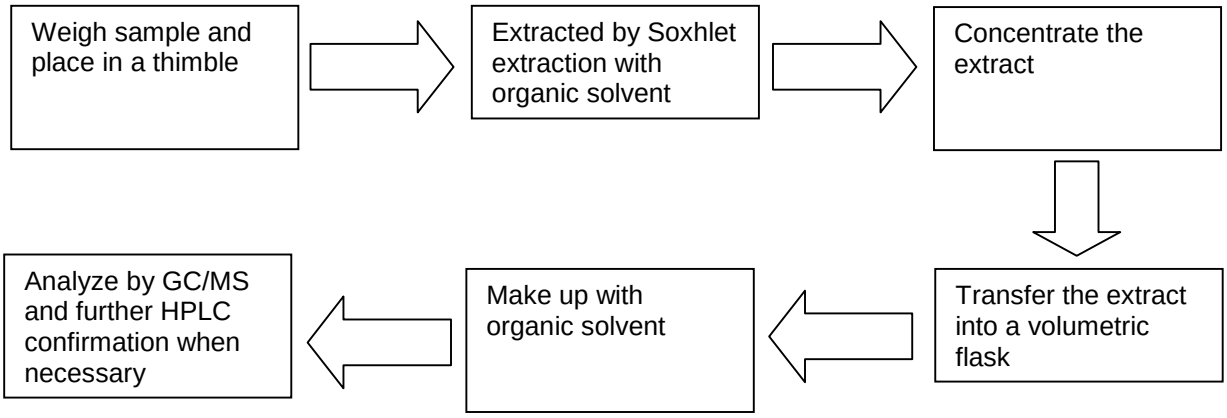
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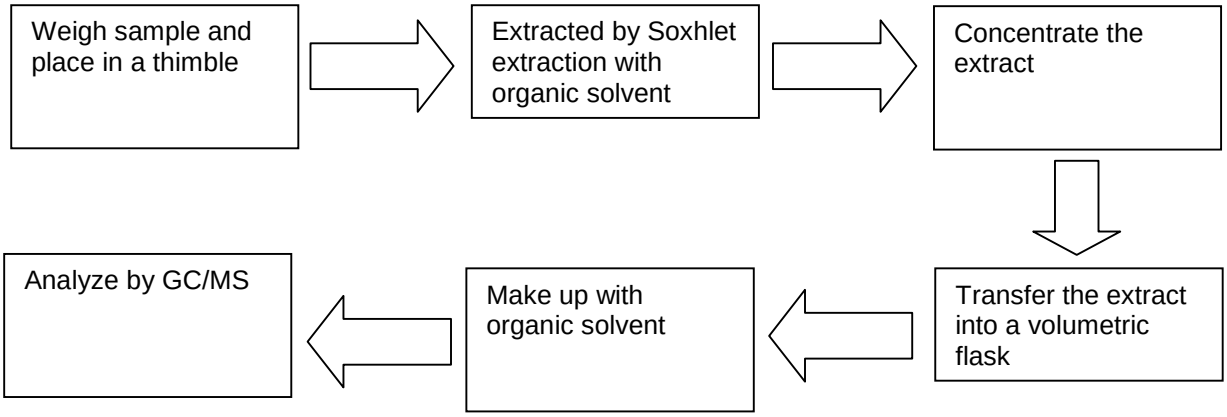
**Test Report** Number： SHAH01849209

Tests Conducted

5. Test for PBBs/PBDEs Contents




6. Test for Phthalate Contents






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**Test Report** Number： SHAH01849209

Tests Conducted

## 2. RoHS Chemical Test

(A) Test Result Summary:

| Testing Item | Result (1) |
|---|---|
| Cadmium (Cd) Content (mg/kg) | ND |
| Lead (Pb) Content (mg/kg) | ND |
| Mercury (Hg) Content (mg/kg) | ND |
| Chromium (VI)($Cr^{6+}$) Content (mg/kg) | ND |
| Chromium (VI)($Cr^{6+}$) Result (By Boiling Water Extraction on Metal) ($\mu g/cm^2$) | - |
| Polybrominated Biphenyls (PBBs) Content (mg/kg) | |
| Monobromobiphenyl (MonoBB) | ND |
| Dibromobiphenyl (DiBB) | ND |
| Tribromobiphenyl (TriBB) | ND |
| Tetrabromobiphenyl (TetraBB) | ND |
| Pentabromobiphenyl (PentaBB) | ND |
| Hexabromobiphenyl (HexaBB) | ND |
| Heptabromobiphenyl (HeptaBB) | ND |
| Octabromobiphenyl (OctaBB) | ND |
| Nonabromobiphenyl (NonaBB) | ND |
| Decabromobiphenyl (DecaBB) | ND |
| Polybrominated Diphenyl Ethers (PBDEs) Content (mg/kg) | |
| Monobromodiphenyl Ether (MonoBDE) | ND |
| Dibromodiphenyl Ether (DiBDE) | ND |
| Tribromodiphenyl Ether (TriBDE) | ND |
| Tetrabromodiphenyl Ether (TetraBDE) | ND |
| Pentabromodiphenyl Ether (PentaBDE) | ND |
| Hexabromodiphenyl Ether (HexaBDE) | ND |
| Heptabromodiphenyl Ether (HeptaBDE) | ND |
| Octabromodiphenyl Ether (OctaBDE) | ND |
| Nonabromodiphenyl Ether (NonaBDE) | ND |
| Decabromodiphenyl Ether (DecaBDE) | ND |
| Phthalates Content (mg/kg) | |
| Bis(2-ethylhexyl)phthalate (DEHP) | ND |
| Butyl benzyl phthalate (BBP) | ND |
| Dibutyl phthalate (DBP) | ND |
| Diisobutyl phthalate (DIBP) | ND |

Remark：mg/kg = milligram per kilogram
ND = Not detected



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**Test Report** Number： SHAH01849209

Tests Conducted
(B) RoHS Requirement:

| **Restricted Substances** | **Limits** |
|---|---|
| Cadmium (Cd) | 0.01% (100 mg/kg) |
| Lead (Pb) | 0.1% (1000 mg/kg) |
| Mercury (Hg) | 0.1% (1000 mg/kg) |
| Chromium (VI) ($Cr^{6+}$) | 0.1% (1000 mg/kg) |
| Polybrominated Biphenyls (PBBs) | 0.1% (1000 mg/kg) |
| Polybrominated Diphenyl Ethers (PBDEs) | 0.1% (1000 mg/kg) |
| Phthalates (DEHP, BBP, DBP, DIBP) | 0.1% (1000 mg/kg) |

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C)Test Method:

| **Testing Item** | **Testing Method** | **Reporting Limit** |
|---|---|---|
| Cadmium (Cd) Content | With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES | 2 mg/kg |
| Lead (Pb) Content | With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES | 2 mg/kg |
| Mercury (Hg) Content | With reference to IEC 62321-4 Edition 1.1:2017, by acid digestion until the tested sample was totally dissolved and determined by ICP - OES | 2 mg/kg |
| Chromium (VI)($Cr^{6+}$) Content | With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer | 10 mg/kg |
| Chromium (VI) ($Cr^{6+}$) Content | With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer. | Positive(>0.13 μg/$cm^2$) / Negative(<0.10 μg/$cm^2$) / Inconclusive(0.10μg/$cm^2$ -- 0.13 μg/$cm^2$) |
| Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content | With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary | 5 mg/kg |
| Phthalates (DEHP, BBP, DBP, DIBP) Content | With reference to IEC 62321-8 Edition 1.0:2017,by solvent extraction and determined by GC/MS | 100mg/kg |

Tested Components：See component list in the last section of this report.

Date Sample Received: Jul 24, 2025
Testing Period: Jul 24, 2025 to Jul 29, 2025



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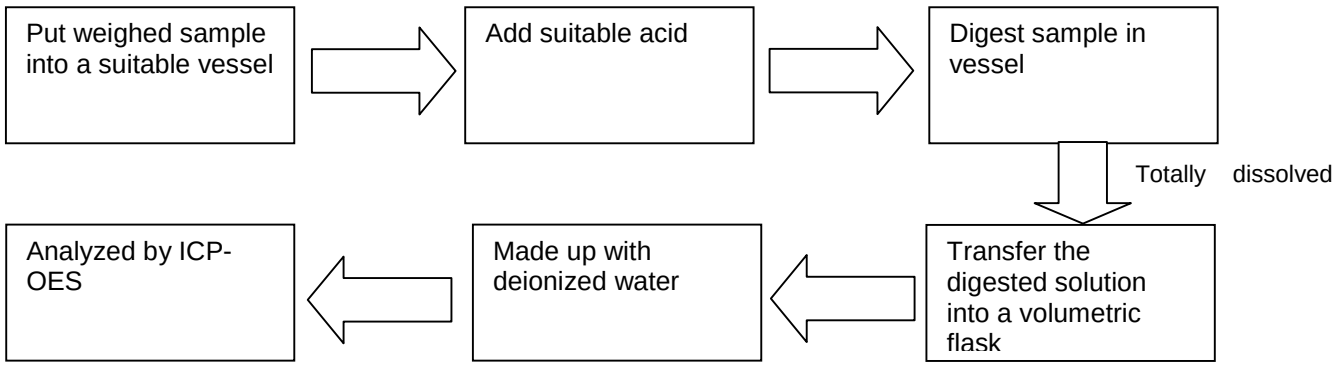
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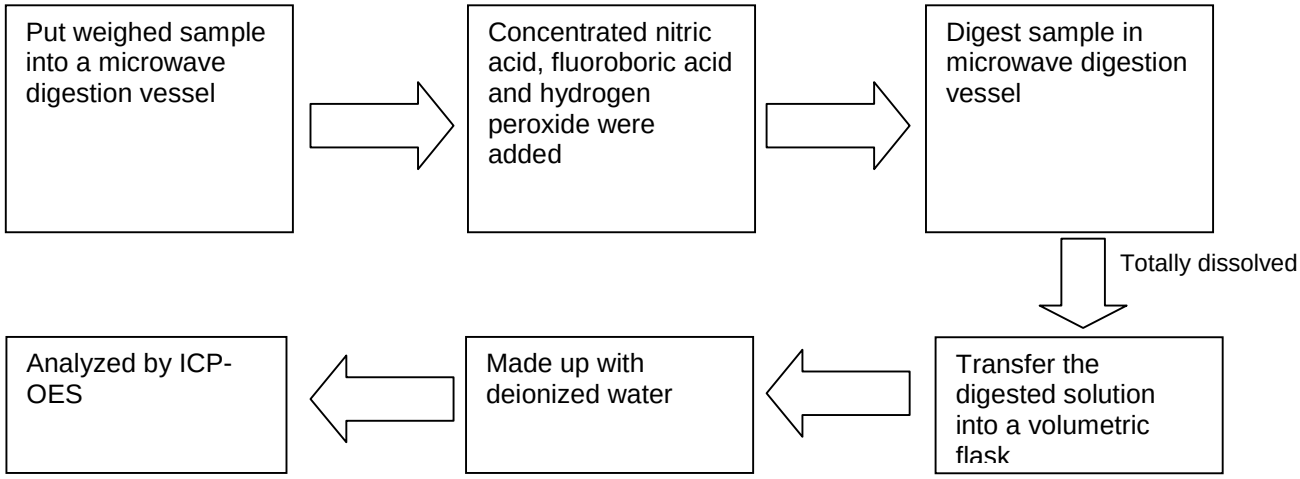
Tests Conducted

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents




2. Test for Hg Content






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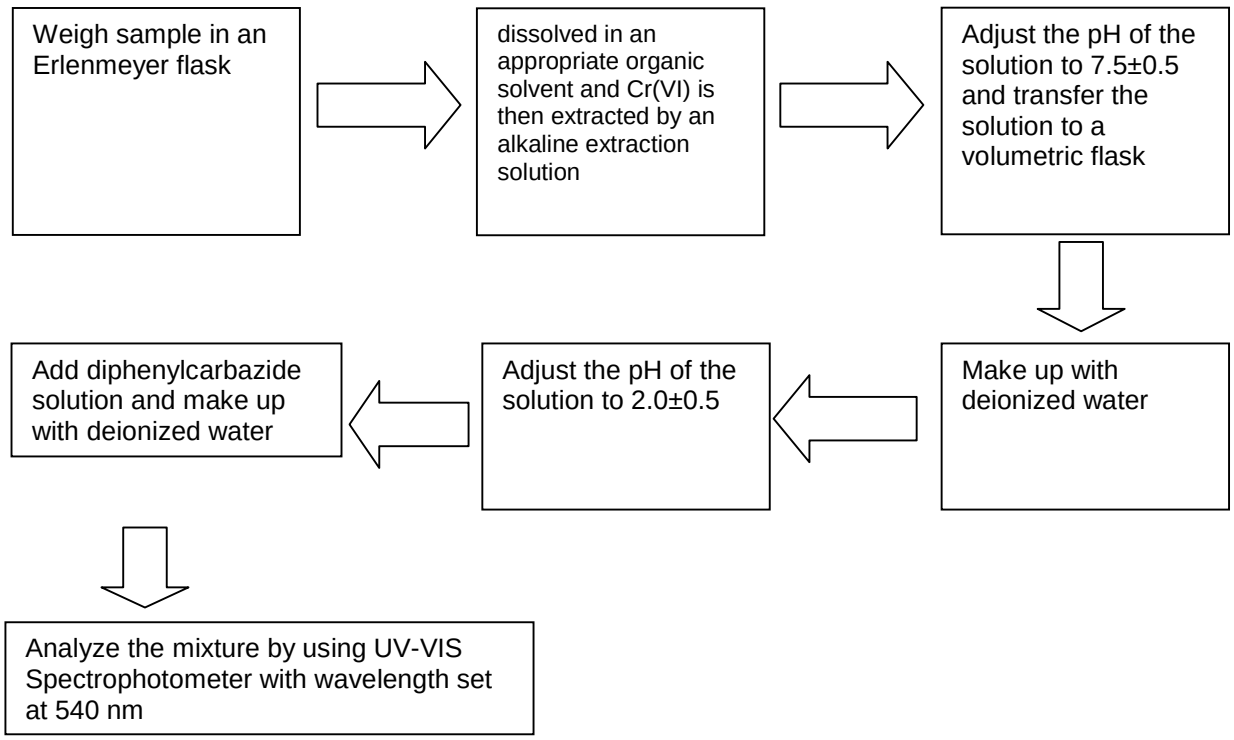
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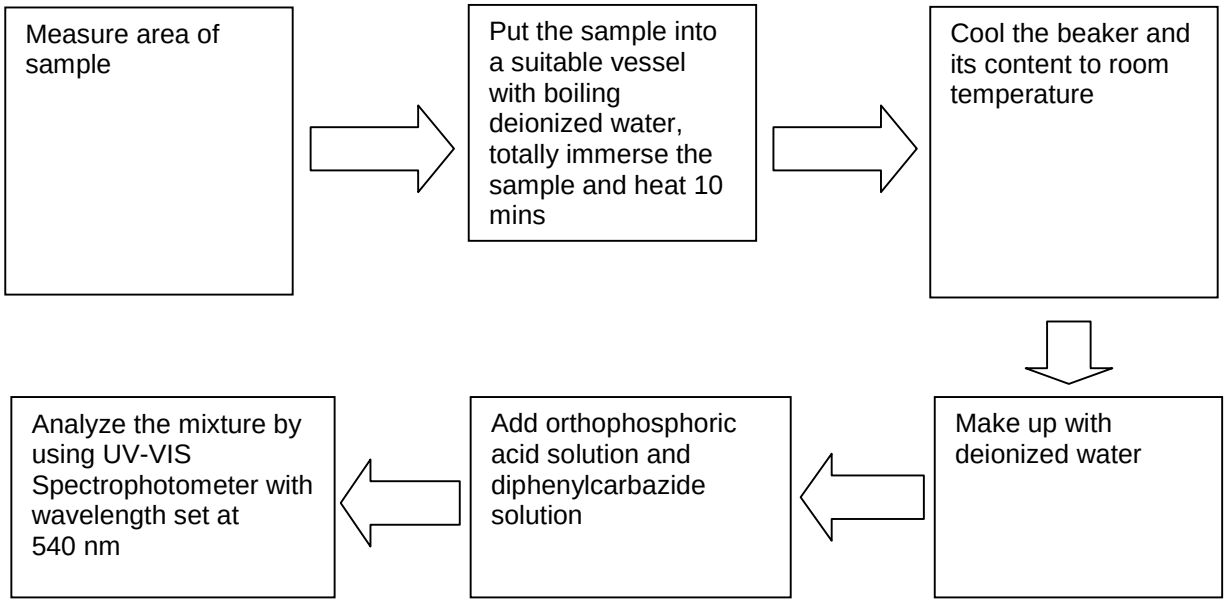
**Test Report** Number： SHAH01849209

Tests Conducted

3. Test for Chromium (VI) ($Cr^{6+}$) Content (Non-metal)




4. Test for Chromium (VI) ($Cr^{6+}$) Content (Boiling Water Extraction)





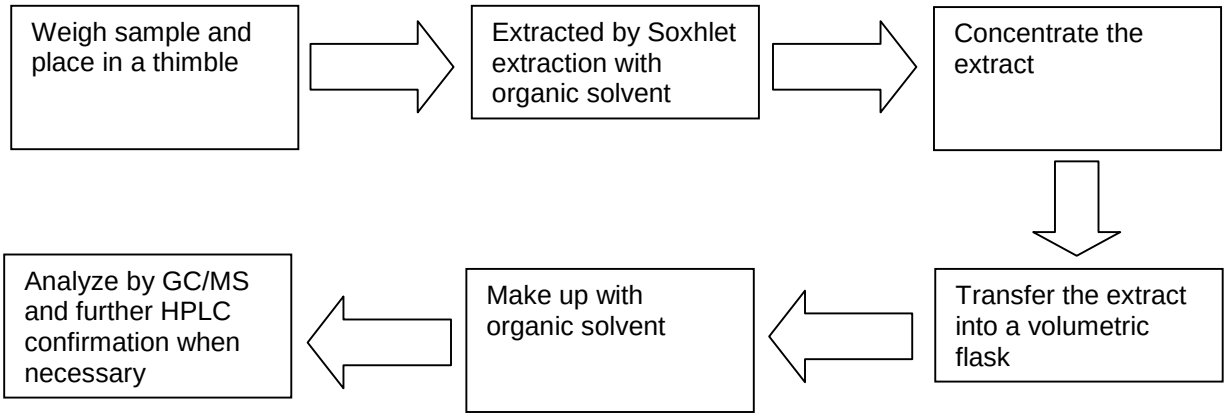

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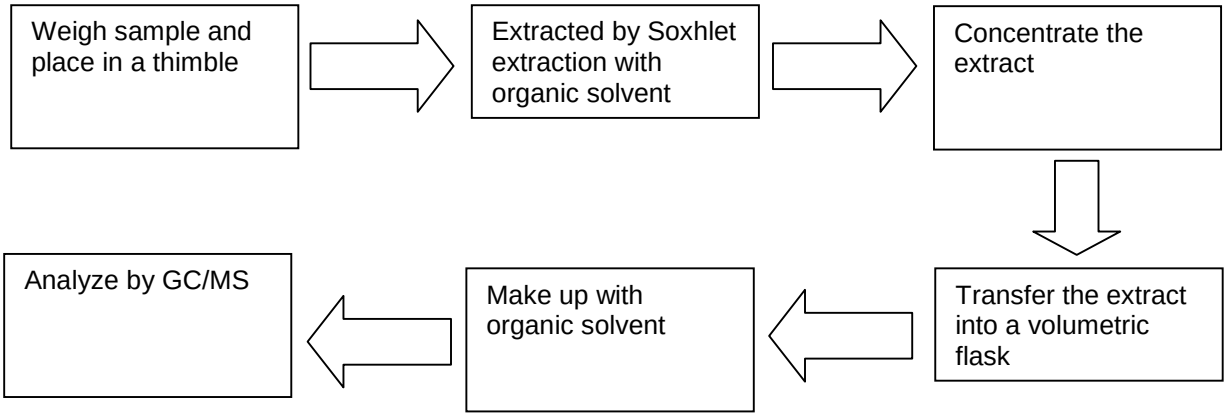
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Tests Conducted

5. Test for PBBs/PBDEs Contents




6. Test for Phthalate Contents






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**Test Report** Number： SHAH01849209

Tests Conducted

**3. RoHS 化学测试**

(A) 测试结果:

| 测试项目 | 结果 |
|---|---|
| | (1) |
| 镉(Cd)含量(mg/kg) | ND |
| 铅(Pb)含量(mg/kg) | ND |
| 汞(Hg)含量(mg/kg) | ND |
| 六价铬($Cr^{6+}$)含量(mg/kg) | ND |
| 六价铬($Cr^{6+}$)结果(金属材质的沸水抽提测试)($\mu g/cm^2$) | - |
| 多溴联苯(PBBs)含量(mg/kg) | |
| 一溴联苯（MonoBB） | ND |
| 二溴联苯(DiBB) | ND |
| 三溴联苯(TriBB) | ND |
| 四溴联苯(TetraBB) | ND |
| 五溴联苯(PentaBB) | ND |
| 六溴联苯(HexaBB) | ND |
| 七溴联苯(HeptaBB) | ND |
| 八溴联苯(OctaBB) | ND |
| 九溴联苯(NonaBB) | ND |
| 十溴联苯(DecaBB) | ND |
| 多溴联苯醚(PBDEs)含量(mg/kg) | |
| 一溴联苯醚(MonoBDE) | ND |
| 二溴联苯醚(DiBDE) | ND |
| 三溴联苯醚(TriBDE) | ND |
| 四溴联苯醚(TetraBDE) | ND |
| 五溴联苯醚(PentaBDE) | ND |
| 六溴联苯醚(HexaBDE) | ND |
| 七溴联苯醚(HeptaBDE) | ND |
| 八溴联苯醚(OctaBDE) | ND |
| 九溴联苯醚(NonaBDE) | ND |
| 十溴联苯醚(DecaBDE) | ND |
| 邻苯二甲酸酯含量(mg/kg) | |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | ND |
| 邻苯二甲酸丁酯苄酯(BBP) | ND |
| 邻苯二甲酸二丁酯(DBP) | ND |
| 邻苯二甲酸二异丁酯(DIBP) | ND |



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**Test Report** Number： SHAH01849209

Tests Conducted
ND = 未被检出

(B) RoHS 指令要求:

| 限制物质 | 最大限量 |
|---|---|
| 镉(Cd) | 0.01% (100 mg/kg) |
| 铅(Pb) | 0.1% (1000 mg/kg) |
| 汞(Hg) | 0.1% (1000 mg/kg) |
| 六价铬($Cr^{6+}$) | 0.1% (1000 mg/kg) |
| 多溴联苯(PBBs) | 0.1% (1000 mg/kg) |
| 多溴联苯醚(PBDEs) | 0.1% (1000 mg/kg) |
| 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) | 0.1% (1000 mg/kg) |

最大限量引自 2011/65/EU 和(EU)2015/863 关于对均质物料的要求。

(C) 测试方法:

| 测试项目 | 测试方法 | 报告极限 |
|---|---|---|
| 镉(Cd)含量 | 参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。 | 2 mg/kg |
| 铅(Pb)含量 | 参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。 | 2 mg/kg |
| 汞(Hg)含量 | 参考 IEC 62321-4 Edition 1.1:2017，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。 | 2 mg/kg |
| 六价铬($Cr^{6+}$)含量 | 参考 IEC 62321-7-2 Edition 1.0:2017，使用合适的有机溶剂溶解且用碱液萃取样品，再用紫外-可见分光光度计测定。 | 10 mg/kg |
| 六价铬($Cr^{6+}$)含量 | 参考 IEC 62321-7-1 Edition 1.0:2015，用沸水抽提，再用紫外-可见分光光度计测定。 | 阳性 (>0.13 μg/$cm^2$) / 阴性 (<0.10 μg/$cm^2$) / 不确定 (0.10μg/$cm^2$ – 0.13 μg/$cm^2$) |
| 多溴联苯(PBBs)和多溴联苯醚(PBDEs)含量 | 参考 IEC 62321-6 Edition 1.0:2015，使用适当溶剂进行抽提，再用气质联用仪测定，必要时用高效液相色谱仪进一步确认。 | 5 mg/kg |
| 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) 含量 | 参考 IEC 62321-8 Edition 1.0:2017，使用适当溶剂进行抽提，再用气质联用仪测定。 | 100mg/kg |

测试部件：见报告最后部分部件列表。

收样日期: 2025年7月24日
测试周期: 2025 年 7 月 24 日至 2025 年 7 月 29 日



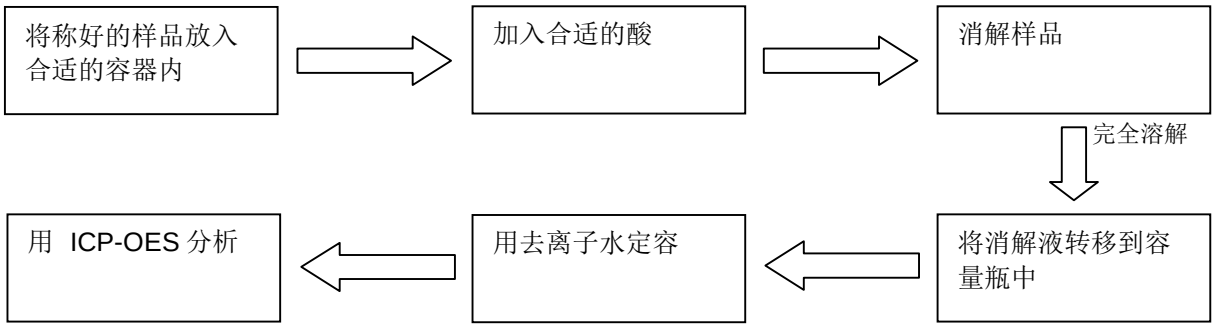
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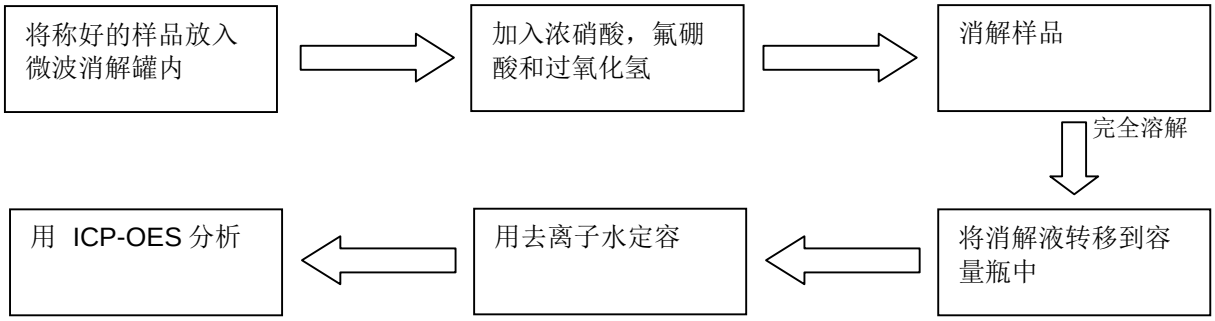
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（D） 测试流程图：

1. 镉/铅(Cd/Pb)含量的测试：




2. 汞(Hg)含量的测试：





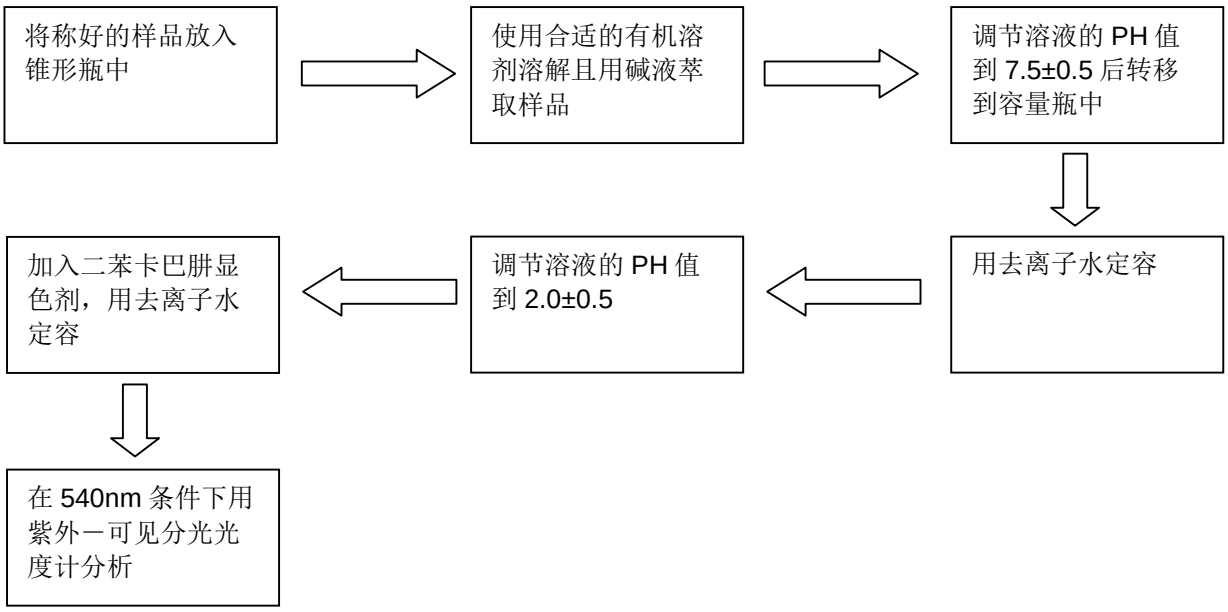

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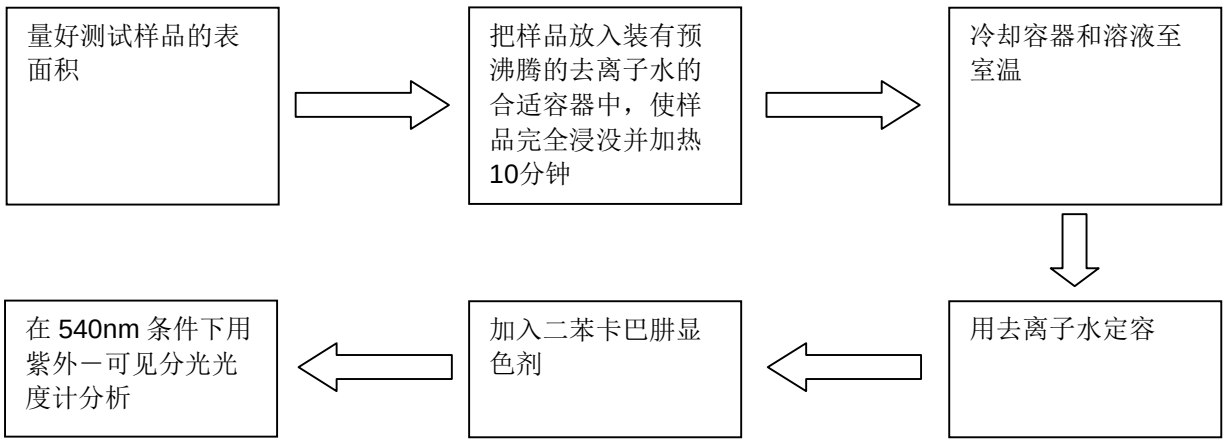
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Tests Conducted

3.六价铬($Cr^{6+}$)含量的测试（非金属）：




4.六价铬($Cr^{6+}$)含量的测试（沸水提取）：



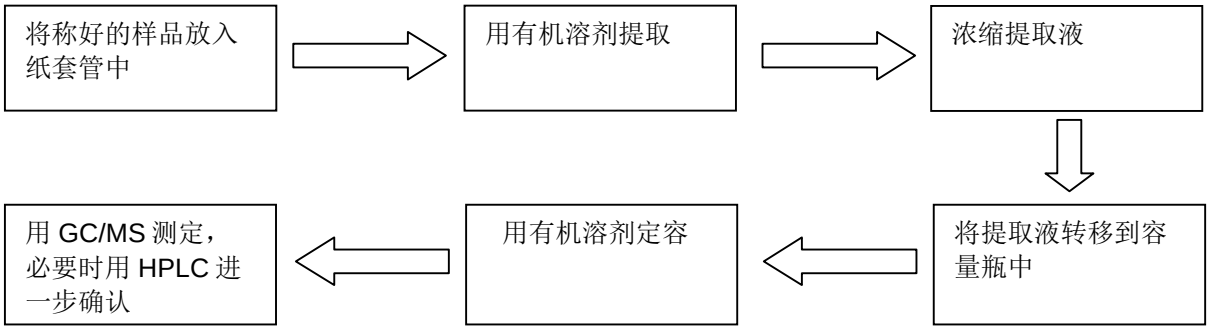



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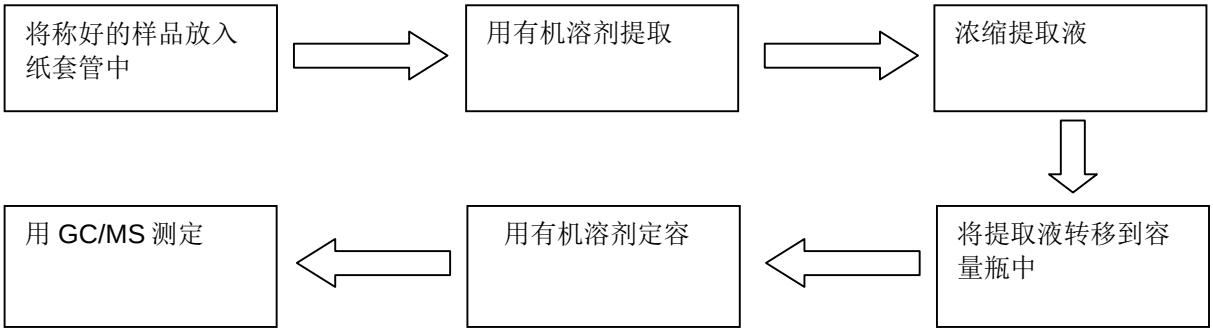
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5. 多溴联苯/多溴联苯醚(PBBs/PBDEs)含量的测试：




6. 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) 含量的测试：






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**4. RoHS 化学测试**

(A) 测试结果:

| 测试项目 | 结果 |
|---|---|
| | (1) |
| 镉(Cd)含量(mg/kg) | ND |
| 铅(Pb)含量(mg/kg) | ND |
| 汞(Hg)含量(mg/kg) | ND |
| 六价铬($Cr^{6+}$)含量(mg/kg) | ND |
| 六价铬($Cr^{6+}$)结果(金属材质的沸水抽提测试)($\mu g/cm^2$) | - |
| 多溴联苯(PBBs)含量(mg/kg) | |
| 一溴联苯（MonoBB） | ND |
| 二溴联苯(DiBB) | ND |
| 三溴联苯(TriBB) | ND |
| 四溴联苯(TetraBB) | ND |
| 五溴联苯(PentaBB) | ND |
| 六溴联苯(HexaBB) | ND |
| 七溴联苯(HeptaBB) | ND |
| 八溴联苯(OctaBB) | ND |
| 九溴联苯(NonaBB) | ND |
| 十溴联苯(DecaBB) | ND |
| 多溴联苯醚(PBDEs)含量(mg/kg) | |
| 一溴联苯醚(MonoBDE) | ND |
| 二溴联苯醚(DiBDE) | ND |
| 三溴联苯醚(TriBDE) | ND |
| 四溴联苯醚(TetraBDE) | ND |
| 五溴联苯醚(PentaBDE) | ND |
| 六溴联苯醚(HexaBDE) | ND |
| 七溴联苯醚(HeptaBDE) | ND |
| 八溴联苯醚(OctaBDE) | ND |
| 九溴联苯醚(NonaBDE) | ND |
| 十溴联苯醚(DecaBDE) | ND |
| 邻苯二甲酸酯含量(mg/kg) | |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | ND |
| 邻苯二甲酸丁酯苄酯(BBP) | ND |
| 邻苯二甲酸二丁酯(DBP) | ND |
| 邻苯二甲酸二异丁酯(DIBP) | ND |



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备注：mg/kg = 毫克每千克
ND = 未被检出

(B) RoHS 指令要求:

| 限制物质 | 最大限量 |
|---|---|
| 镉(Cd) | 0.01% (100 mg/kg) |
| 铅(Pb) | 0.1% (1000 mg/kg) |
| 汞(Hg) | 0.1% (1000 mg/kg) |
| 六价铬($Cr^{6+}$) | 0.1% (1000 mg/kg) |
| 多溴联苯(PBBs) | 0.1% (1000 mg/kg) |
| 多溴联苯醚(PBDEs) | 0.1% (1000 mg/kg) |
| 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) | 0.1% (1000 mg/kg) |

最大限量引自 2011/65/EU 和(EU)2015/863 关于对均质物料的要求。

(C) 测试方法:

| 测试项目 | 测试方法 | 报告极限 |
|---|---|---|
| 镉(Cd)含量 | 参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。 | 2 mg/kg |
| 铅(Pb)含量 | 参考 IEC 62321-5 Edition 1.0:2013，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。 | 2 mg/kg |
| 汞(Hg)含量 | 参考 IEC 62321-4 Edition 1.1:2017，采用酸消化的方法直至样品完全消解，用电感耦合等离子体氩气原子发射光谱仪测定。 | 2 mg/kg |
| 六价铬($Cr^{6+}$)含量 | 参考 IEC 62321-7-2 Edition 1.0:2017，使用合适的有机溶剂溶解且用碱液萃取样品，再用紫外-可见分光光度计测定。 | 10 mg/kg |
| 六价铬($Cr^{6+}$)含量 | 参考 IEC 62321-7-1 Edition 1.0:2015，用沸水抽提，再用紫外-可见分光光度计测定。 | 阳性(>0.13 μg/$cm^2$) / 阴性(<0.10 μg/$cm^2$) / 不确定(0.10 μg/$cm^2$--0.13 μg/$cm^2$) |
| 多溴联苯(PBBs)和多溴联苯醚(PBDEs)含量 | 参考 IEC 62321-6 Edition 1.0:2015，使用适当溶剂进行抽提，再用气质联用仪测定，必要时用高效液相色谱仪进一步确认。 | 5 mg/kg |
| 邻苯二甲酸酯 (DEHP, BBP, DBP, DIBP) 含量 | 参考 IEC 62321-8 Edition 1.0:2017，使用适当溶剂进行抽提，再用气质联用仪测定。 | 100mg/kg |

测试部件：见报告最后部分部件列表。

收样日期: 2025年7月24日
测试周期: 2025 年 7 月 24 日至 2025 年 7 月 29 日



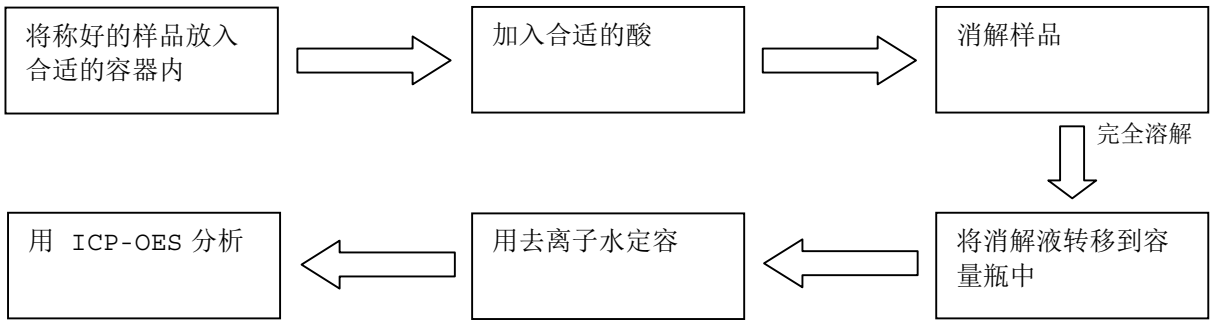
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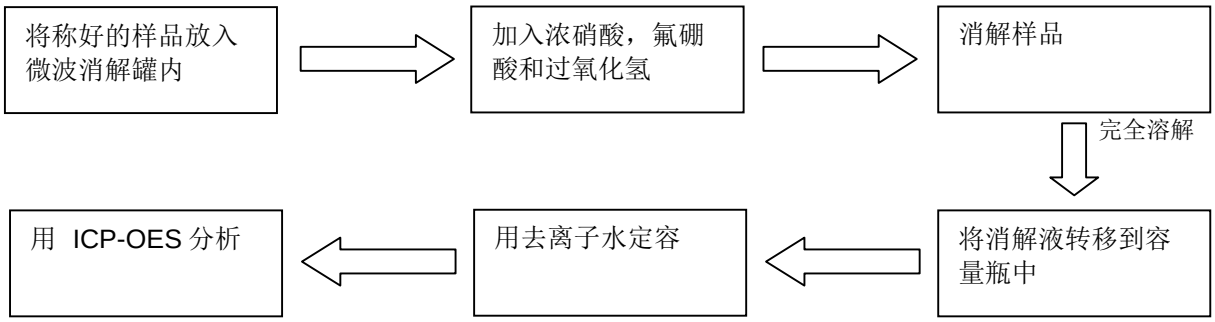
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（D） 测试流程图：

1. 镉/铅(Cd/Pb)含量的测试：




2. 汞(Hg)含量的测试：





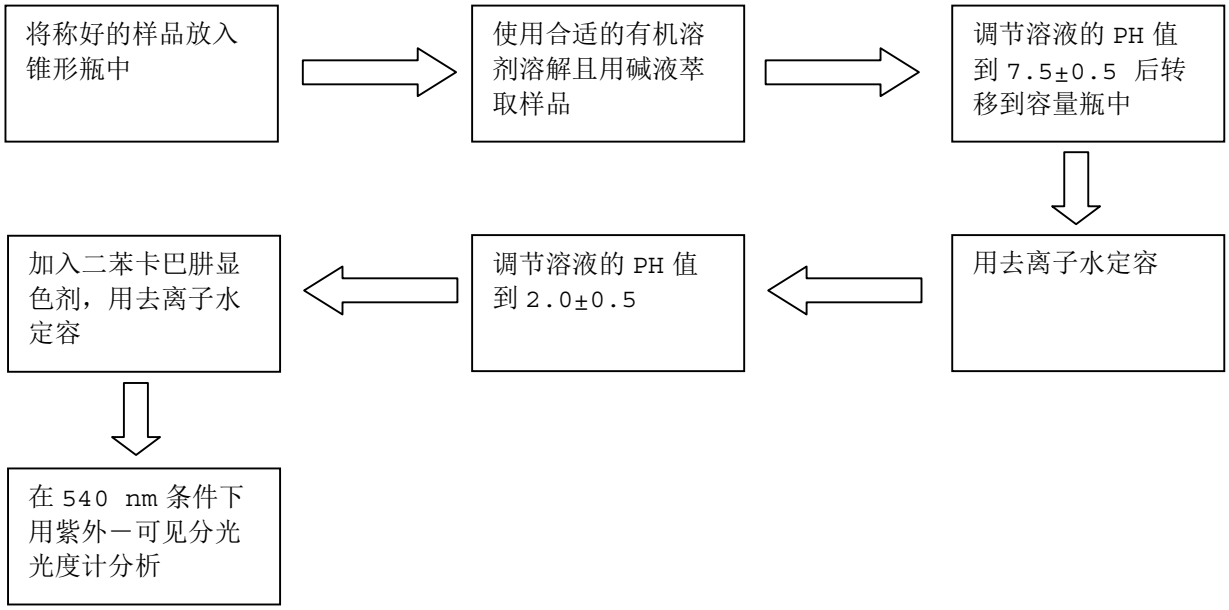

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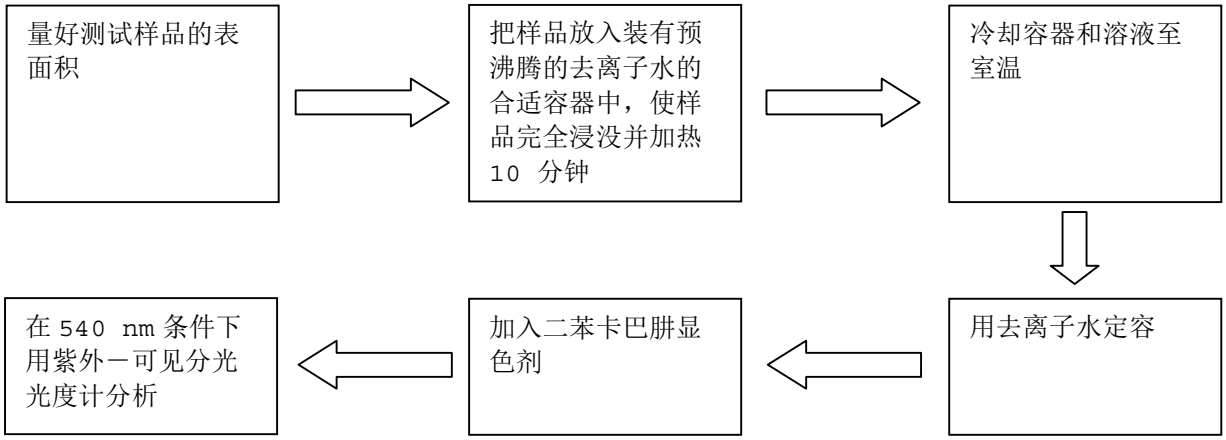
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3.六价铬($Cr^{6+}$)含量的测试（非金属）：




4.六价铬($Cr^{6+}$)含量的测试（沸水提取）：





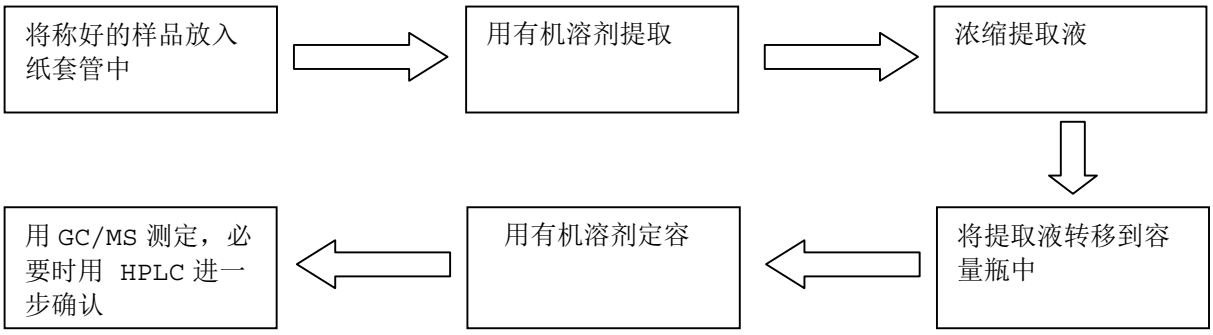

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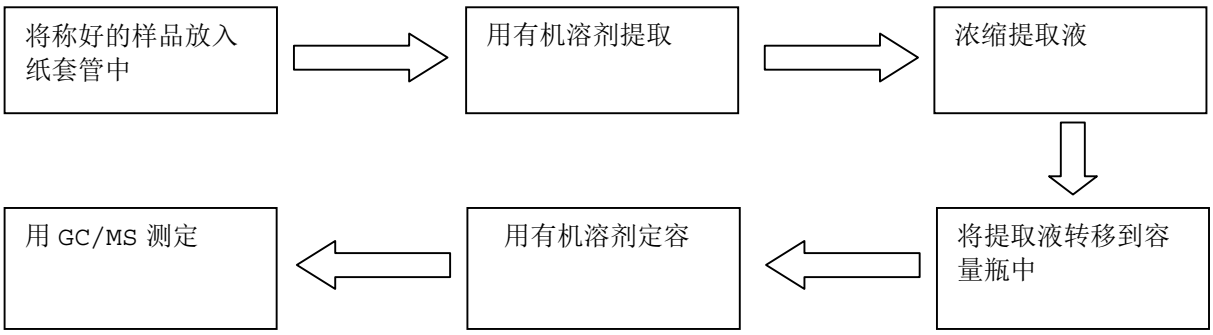
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5. 多溴联苯/多溴联苯醚(PBBs/PBDEs)含量的测试：




6. 邻苯二甲酸酯(DEHP, BBP, DBP, DIBP) 含量的测试：




**Components List：**

(1) Yellow powder

**测点列表:**

(1) 黄色粉末



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**Test Report** Number： SHAH01849209

Tests Conducted




Picture 1: Submitted sample
图片 1：送检样品

**********

End of report
报告结束

备注：本报告所出具的检测数据及结果在中华人民共和国境内仅供特定委托方用于科研、教学、内部质量控制、产品研发等目的参考使用。

Remark: The testing data and result issued by this report is just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.

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