

测试报告

No. SHAEC1809653110

日期: 2018年05月16日 第1页,共14页

江苏广信感光新材料股份有限公司
江阴市青阳镇工业集中区华澄路18号

以下测试之样品是由申请者所提供及确认: 液态感光阻焊油墨

SGS工作编号: SP18-015295 - SUZ
型号: KSM-S6189/KSM-19
样品接收日期: 2018年05月10日
测试周期: 2018年05月10日 - 2018年05月16日
测试要求: 根据客户要求测试
测试方法: 请参见下一页
测试结果: 请参见下一页

结论: 基于所送样品进行的测试, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

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授权签名

Jenny Yao姚娜
批准签署人

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测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	SHA18-096531.005	绿色液体

备注:

- (1) 1 mg/kg = 0.0001%
 (2) MDL = 方法检测限
 (3) ND = 未检出 (< MDL)
 (4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC-MS进行分析。

测试项目	限值	单位	MDL	005
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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测试项目	限值	单位	MDL	005
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	1000	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	1000	mg/kg	50	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863附录II限值中还包括邻苯二甲酸酯BBP, DBP, DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含量不得超过0.1%。

(3) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

(4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

(5) DEHP、BBP 和 DBP的限制不适用于玩具产品, 因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP、BBP 和 DBP含量进行了限制。

欧盟玩具指令2009/48/EC协调标准 EN71-3:2013+ A2:2017(针对第三类:可以刮取玩具材料)

测试方法: 参照EN 71-3:2013+ A2:2017, 采用ICP-MS进行分析。

测试项目	限值	单位	MDL	005
可溶性六价铬 (CrVI)	0.2	mg/kg	0.18	ND
可溶性铅 (Pb)	160	mg/kg	10	ND
可溶性锑 (Sb)	560	mg/kg	10	ND
可溶性砷 (As)	47	mg/kg	10	ND
可溶性钡 (Ba)	56000	mg/kg	50	144
可溶性镉 (Cd)	17	mg/kg	5	ND
可溶性三价铬 (CrIII)	460	mg/kg	5	ND
可溶性汞 (Hg)	94	mg/kg	10	ND



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测试项目	限值	单位	MDL	005
可溶性硒 (Se)	460	mg/kg	10	ND
可溶性硼 (B)	15000	mg/kg	50	ND
可溶性钴 (Co)	130	mg/kg	10	ND
可溶性锰 (Mn)	15000	mg/kg	50	ND
可溶性锶 (Sr)	56000	mg/kg	50	ND
可溶性锌 (Zn)	46000	mg/kg	50	ND
可溶性铜 (Cu)	7700	mg/kg	50	ND
可溶性铝 (Al)	70000	mg/kg	50	ND
可溶性镍 (Ni)	930	mg/kg	10	ND
可溶性锡 (Sn)	180000	mg/kg	4.9	ND
可溶性有机锡*	-	mg/kg	-	ND

备注:

(1) 溶出总铬含量没有超过 EN71-3:2013+A2:2017中相应限量, 根据EN 71-3:2013+A2:2017的要求, 不需要额外分别测试溶出铬(III)和溶出铬(VI)的含量。

(2) *可溶性锡转化为可溶性有机锡后的含量没有超过EN71-3:2013+A2:2017中相应限量, 根据EN 71-3:2013+A2:2017的要求, 不需要额外测试可溶性有机锡的含量。

元素

测试方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析。

测试项目	单位	MDL	005
砷 (As)	mg/kg	10	ND

四溴双酚-A

测试方法: 参照 IEC 62321:2008方法测定, 采用GC-MS进行分析。

测试项目	单位	MDL	005
四溴双酚-A	mg/kg	10	ND

辛基酚聚氧乙烯醚(OPEOs), 壬基酚聚氧乙烯醚(NPEOs), 壬基酚 (NP) 和辛基酚(OP)

测试方法: 溶剂萃取, 采用HPLC-MS进行分析。



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测试项目	单位	MDL	005
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	50	ND
辛基酚聚氧乙烯醚(OPEOs)	mg/kg	50	ND
壬基酚(NP)	mg/kg	50	ND
辛基酚(OP)	mg/kg	50	ND

备注:

- (1) NP和NPEOs参考信息:1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第46条(前身为2003/53/EC): 当用于下属用途时,不允许NP、NPEOs质量浓度等于或高于0.1%的物料或者配置品投放市场:工业和公共机构清洁,家用清洗,纺织品和皮革加工, 农用动物乳房清洗/浸润剂的乳化剂, 金属加工, 纸浆和纸张的制造,化妆品,其他个人护理用品和杀虫剂和生物农药中的复合赋形剂
详细信息请参见Regulation (EC) No 552/2009
- (2) 需要时采用GC-MS进行确认

全氟辛烷磺酸(PFOS)和全氟辛酸(PFOA)

测试方法: 参照US EPA 3550C: 2007. 采用HPLC-MS测试.

测试项目	限值	单位	MDL	005
全氟辛烷磺酸(PFOS)及衍生物^	10	mg/kg	10	ND
全氟辛酸(PFOA)	-	mg/kg	10	ND

备注:

- (1) 最大允许限制引用自(EC) No. 850/2004的修订指令欧盟决议(EU) No. 757/2010.
- (2) ^= PFOS包含全氟辛烷磺酸(PFOS), 全氟辛基磺酰胺(PFOSA), 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE), N-甲基全氟辛烷磺酰胺(MeFOSE), N-乙基全氟辛烷磺酰胺(EtFOSE)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。

六溴环十二烷(HBCDD)

测试方法: 参照US EPA 3550C: 2007方法测定, 采用GC-MS进行分析.

测试项目	CAS NO.	单位	MDL	005
六溴环十二烷(HBCDD)	25637-99-4, 3194- 55-6	mg/kg	10	ND

邻苯二甲酸盐(或酯)

测试方法: 参照EN 14372: 2004的方法测定, 采用GC-MS进行分析.



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测试项目	CAS NO.	单位	MDL	005
邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯(DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯(DIDP)	26761-40-0/ 68515-49-1	%	0.01	ND
邻苯二甲酸二甲酯(DMP)	131-11-3	%	0.003	ND
邻苯二甲酸二乙酯(DEP)	84-66-2	%	0.003	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二戊酯(DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	%	0.003	ND
邻苯二甲酸二苯酯(DPhP)	84-62-8	%	0.003	ND
邻苯二甲酸二苄酯(DBzP)	523-31-9	%	0.003	ND
邻苯二甲酸二异辛酯(DiOP)	27554-26-3	%	0.01	ND
邻苯二甲酸二丙酯(DPrP)	131-16-8	%	0.003	ND
邻苯二甲酸二壬酯(DNP)	84-76-4	%	0.003	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND

备注:

(1) DBP, BBP, DEHP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第51条 (前身为2005/84/EC) 的要求:

- i) 不允许DBP, BBP, DEHP质量浓度高于0.1%的可塑性物料用于玩具和儿童护理品
- ii) 当玩具和儿童护理品中的可塑性物料含DBP, BBP, DEHP质量浓度高于0.1%时,不得投放市场
详细信息请参见Regulation (EC) No 552/2009

DINP, DNOP, DIDP参考信息: 1907/2006/EC Reach附录XVII的修正指令——552/2009/EC第52条 (前身为2005/84/EC) 的要求:

- i) 不允许DINP, DNOP, DIDP质量浓度高于0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品
- ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含DINP, DNOP, DIDP质量浓度高于0.1%时,不得投放市场。

详细信息请参见Regulation (EC) No 552/2009

备注:

EN71-3测试项目: 所示结果为烘干样品总重量中的含量。

其他测试项目: 所示结果为湿样品总重量中的含量。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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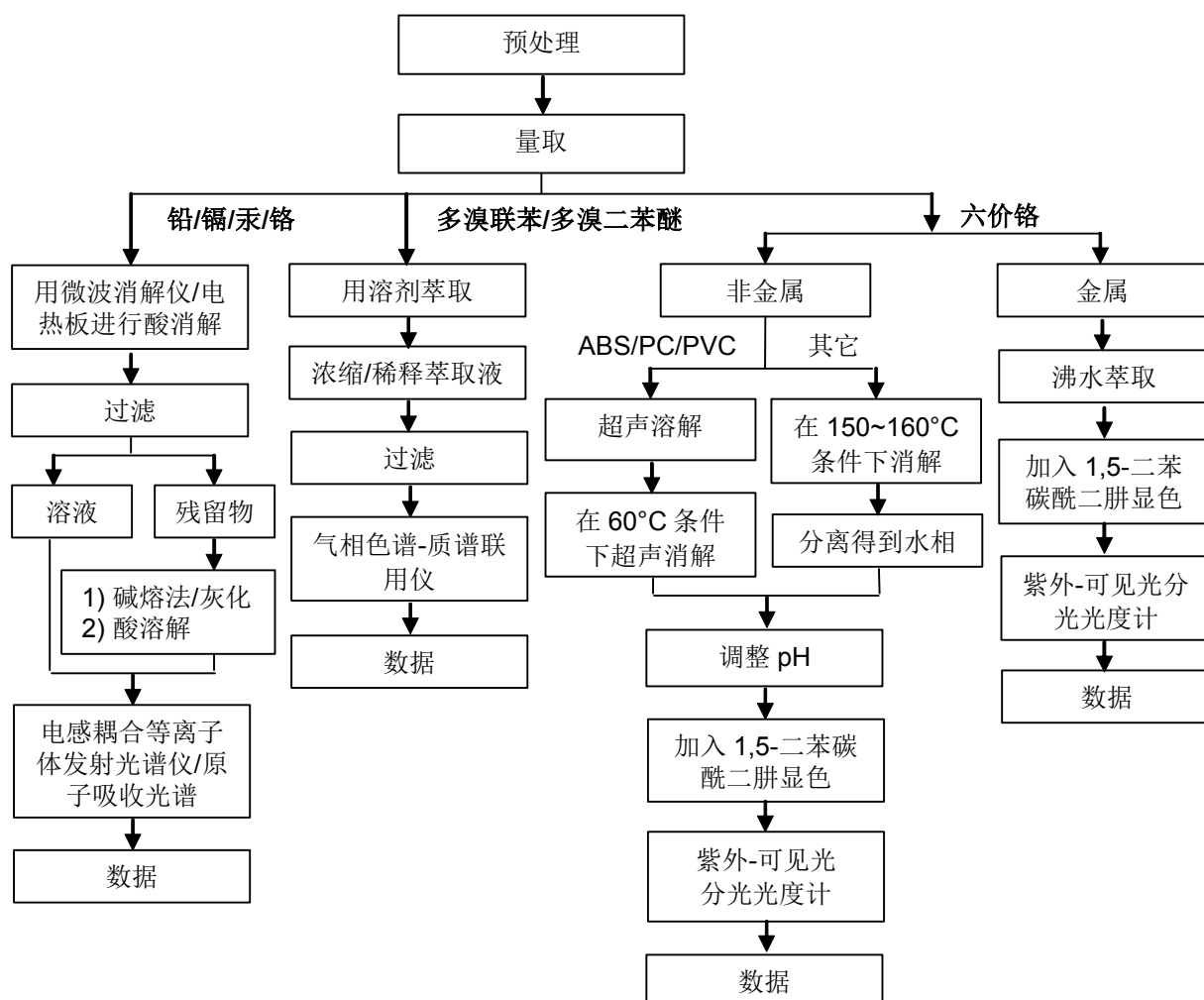
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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

- 1) 分析人员: 金叶/徐刚/杨小龙 /宋珂静
- 2) 项目负责人: 施青/马永存/徐亮/王晓艳
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



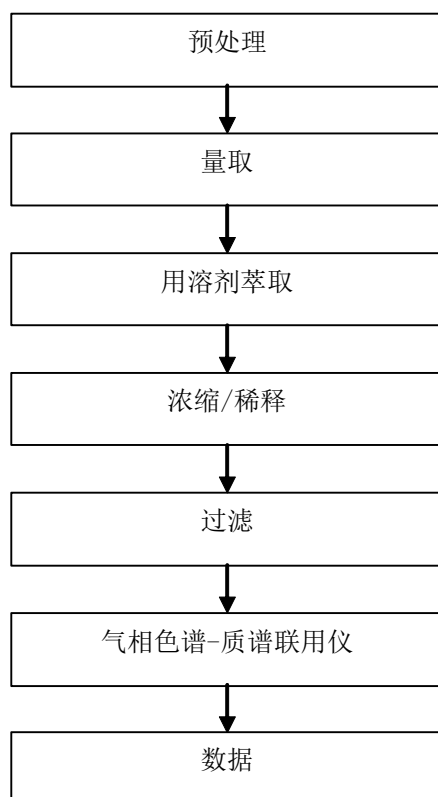
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Phthalates 测试流程图

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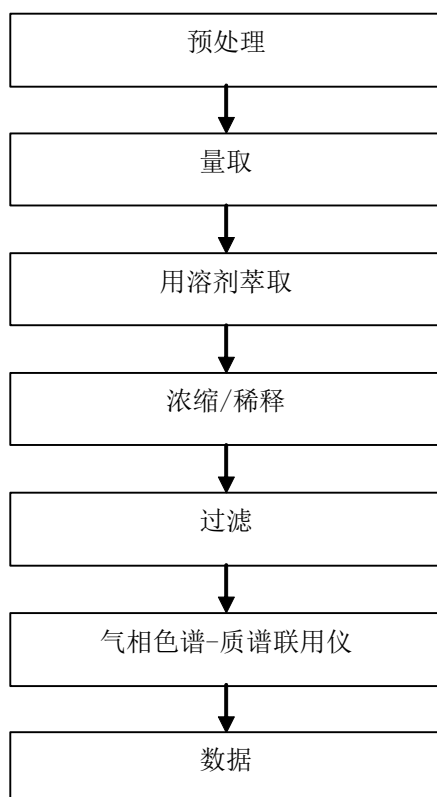
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HBCDD 测试流程图

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- 2) 项目负责人: 马永存



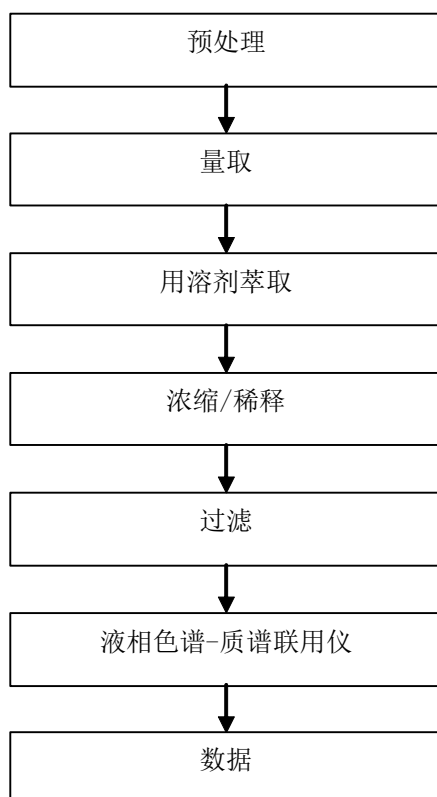
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PFOS/PFOA 测试流程图

- 1) 分析人员: 杨占君
- 2) 项目负责人: 李晓茹



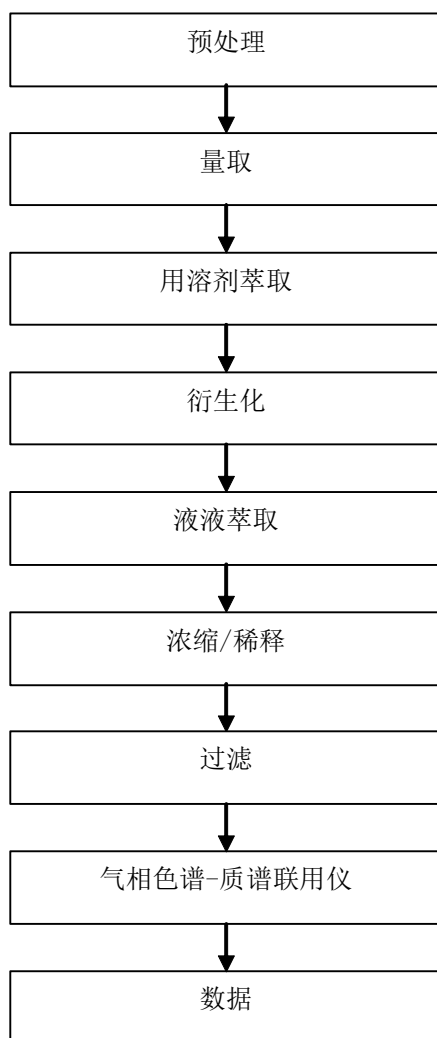
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TBBP-A 测试流程图

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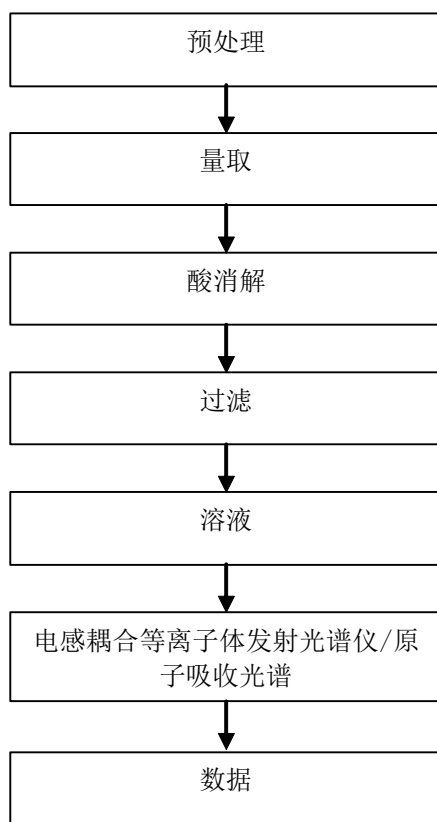
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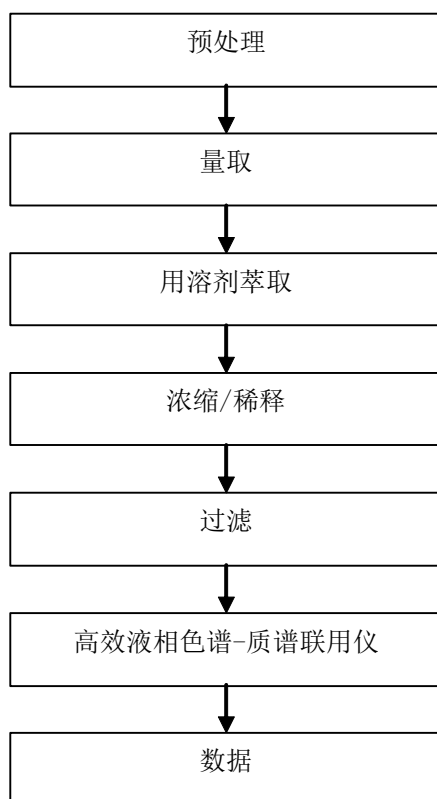
元素测试流程图

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NP / OP / NPEOs / OPEOs 测试流程图

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测试报告

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