

检测报告

编号: SHAEC23018495504

日期: 2023 年 11 月 15 日

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客户名称: 江苏广信感光新材料股份有限公司
客户地址: 江阴市青阳镇工业集中区华澄路 18 号

样品名称: 液态感光阻焊油墨
型号: KSM-S6189
料号: KSM-19
客户参考信息: 1. 以 75°C 预烤 3 小时; 150°C 2 小时固化
2. 适用于 KSM-S6189G 系列/KSM-19 系列
KSM-S6189KG 系列/KSM-19 系列
KSM-S6189GM 系列/KSM-19 系列
KSM-S6189MGH 系列/KSM-19 系列
KSM-S6189GL 系列/KSM-19 系列
KSM-S6189GHT 系列/KSM-19 系列
KSM-S6189GSN 系列 /KSM-19 系列
KSM-S6189HG 系列/KSM-19 系列
制造商: 江苏广信感光新材料股份有限公司
以上样品及信息由客户提供。

SGS 工作编号: TIC10202311071052297WDO
样品接收时间: 2023 年 11 月 08 日
检测周期: 2023 年 11 月 08 日 ~ 2023 年 11 月 15 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、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)	符合

通标标准技术服务(上海)有限公司
授权签名

倪俊

Tom Ni 倪俊
批准签署人

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检测要求	结论
元素	见检测结果
四溴双酚 A(TBBPA)	见检测结果
欧盟委员会关于欧盟玩具指令 2009/48/EC 协调标准的执行决议(EU) 2023/740-EN 71-3:2019+A1:2021-- 特定元素迁移测试(针对第三类:可以刮取玩具材料)	见检测结果
烷基苯酚聚氧乙烯醚(APEO) 和烷基苯酚(AP)	见检测结果
六溴环十二烷 (HBCDD)	见检测结果
全氟辛烷磺酸(PFOS)及衍生物和全氟辛酸(PFOA)及其盐	见检测结果
邻苯二甲酸盐(或酯)	见检测结果

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SHA23-0184955-0001.C001	绿色固体

备注:

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

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863- 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、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)

检测方法: 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。

检测项目	限值	单位	MDL	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	4
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(MonoBB)	-	mg/kg	5	ND
二溴联苯(DiBB)	-	mg/kg	5	ND
三溴联苯(TriBB)	-	mg/kg	5	ND
四溴联苯(TetraBB)	-	mg/kg	5	ND
五溴联苯(PentaBB)	-	mg/kg	5	ND
六溴联苯(HexaBB)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
七溴联苯(HeptaBB)	-	mg/kg	5	ND
八溴联苯(OctaBB)	-	mg/kg	5	ND
九溴联苯(NonaBB)	-	mg/kg	5	ND
十溴联苯(DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚(MonoBDE)	-	mg/kg	5	ND
二溴二苯醚(DiBDE)	-	mg/kg	5	ND
三溴二苯醚(TriBDE)	-	mg/kg	5	ND
四溴二苯醚(TetraBDE)	-	mg/kg	5	ND
五溴二苯醚(PentaBDE)	-	mg/kg	5	ND
六溴二苯醚(HexaBDE)	-	mg/kg	5	ND
七溴二苯醚(HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚(OctaBDE)	-	mg/kg	5	ND
九溴二苯醚(NonaBDE)	-	mg/kg	5	ND
十溴二苯醚(DecaBDE)	-	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) 最大允许限值引用自 RoHS 指令(EU) 2015/863。
 (2) IEC 62321 系列等同于 EN 62321 系列。
 (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。

元素

检测方法: 参考 US EPA 3052:1996, 采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A1
砷(As)	mg/kg	10	ND

四溴双酚 A(TBBPA)

检测方法: 参考 IEC 62321:2008, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
四溴双酚 A(TBBPA)	79-94-7	mg/kg	10	ND

欧盟委员会关于欧盟玩具指令 2009/48/EC 协调标准的执行决议(EU) 2023/740-EN 71-3:2019+A1:2021-- 特定元素迁移测试(针对第三类:可以刮取玩具材料)

检测方法: 参考 EN 71-3:2019+A1:2021, 采用 ICP-OES, IC-UV 或 LC-ICP-MS 进行分析。



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检测项目	限值	单位	MDL	A1
可溶性铅 (Pb)	23	mg/kg	5	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)	18750	mg/kg	50	73
可溶性镉 (Cd)	17	mg/kg	5	ND
可溶性三价铬 (Cr III)	460	mg/kg	5	ND
可溶性六价铬 (Cr VI)	0.053	mg/kg	0.025	ND
可溶性汞 (Hg)	94	mg/kg	10	ND
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)	28130	mg/kg	50	ND
可溶性镍 (Ni)	930	mg/kg	10	ND
可溶性锡 (Sn)	180000	mg/kg	3	ND
可溶性有机锡*	12	mg/kg	-	ND

备注:

- (1) 根据欧盟于 2023 年 4 月 5 日发布在欧盟官方公报(OJEU)的(EU) 2023/740 委员会执行决定, EN 71-3:2019+A1:2021 被欧盟玩具指令 2009/48/EC 采纳为协调标准以符合玩具相关安全要求
- (2) 根据 EN 71-3:2019+A1:2021 第 10.1.2 章节规定, Cr(III)结果由以下公式换算得到:
可溶性三价铬 = 可溶性总铬 - 可溶性六价铬
- (3) *可溶性锡转化为可溶性有机锡后的含量没有超过 EN 71-3:2019+A1:2021 中相应限量, 根据 EN 71-3:2019+A1:2021 的要求, 不需要额外测试可溶性有机锡的含量。

烷基苯酚聚氧乙烯醚(APEO) 和烷基苯酚(AP)

检测方法: 参考 SGS 内部方法, 采用 LC-MS 进行分析。

检测项目	单位	MDL	A1
壬基酚(NP)	mg/kg	3	ND
辛基酚(OP)	mg/kg	3	ND
壬基酚聚氧乙烯醚(NPEOs)	mg/kg	10	ND
辛基酚聚氧乙烯醚(OPEOs)	mg/kg	10	ND

备注:

采用 GC-MS 进行确认

六溴环十二烷 (HBCDD)

检测方法: 参考 US EPA 3550C:2007, 采用 GC-MS 进行分析。



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检测项目	CAS No.	单位	MDL	A1
六溴环十二烷 (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	10	ND

全氟辛烷磺酸(PFOS)及其衍生物和全氟辛酸(PFOA)及其盐

检测方法: 参考 CEN/TS 15968:2010, 采用 HPLC-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
全氟辛烷磺酸(PFOS)及其衍生物	-	mg/kg	-	ND
全氟辛烷磺酸 (PFOS)及其盐*	1763-23-1	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND
全氟辛酸 (PFOA)及其盐*	335-67-1	mg/kg	0.010	ND

备注:

- (1) 全氟辛酸 (PFOA)及其盐*包括 PFOA (CAS No. 335-67-1)、APFO (CAS No. 3825-26-1)、PFOA-Na (CAS No. 335-95-5)、PFOA-K (CAS No. 2395-00-8)、PFOA-Ag (CAS No. 335-93-3) 和 PFOA-F (CAS No. 335-66-0)。全氟辛酸 (PFOA)的结果用于表示全氟辛酸 (PFOA)及其盐。
- (2) 全氟辛烷磺酸 (PFOS)及其盐*包括全氟辛烷磺酸 (CAS No.1763-23-1)、POSF (CAS No. 307-35-7)、PFOS-K (CAS No. 2795-39-3)、PFOS-NH₄ (CAS No. 29081-56-9)、PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8)、PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8)、PFOS-Li (CAS No. 29457-72-5)、PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) 和 PFOS-Na (CAS No. 4021-47-0)。全氟辛烷磺酸的结果用于表示全氟辛烷磺酸及其盐。

邻苯二甲酸盐(或酯)

检测方法: 参考 EN 14372:2004, 采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
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) (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	%	0.010	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	%	0.010	ND



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检测项目	CAS No.	单位	MDL	A1
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(2-甲氧基乙基)酯(DMEP)	117-82-8	%	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	%	0.010	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

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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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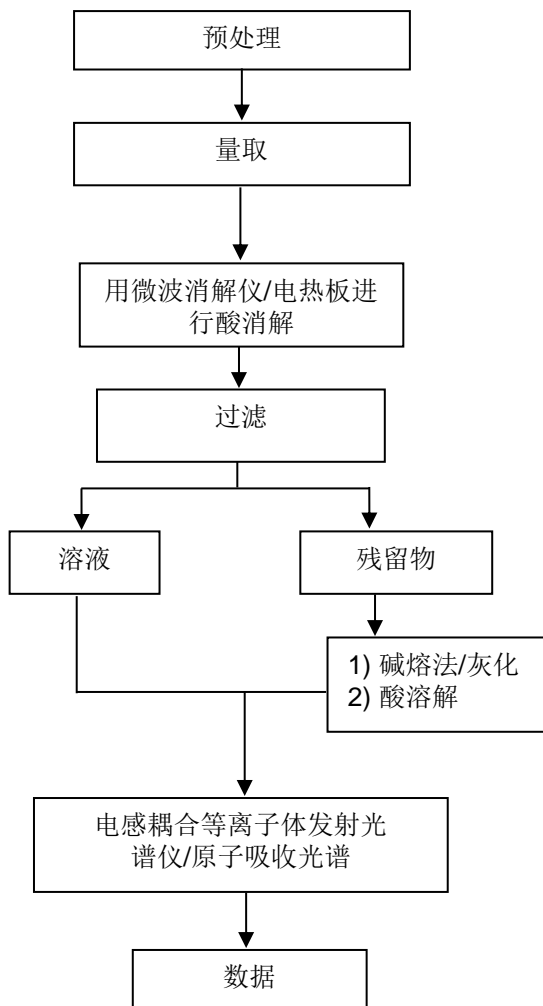
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附件

元素检测流程图

样品按照下述流程被完全消解



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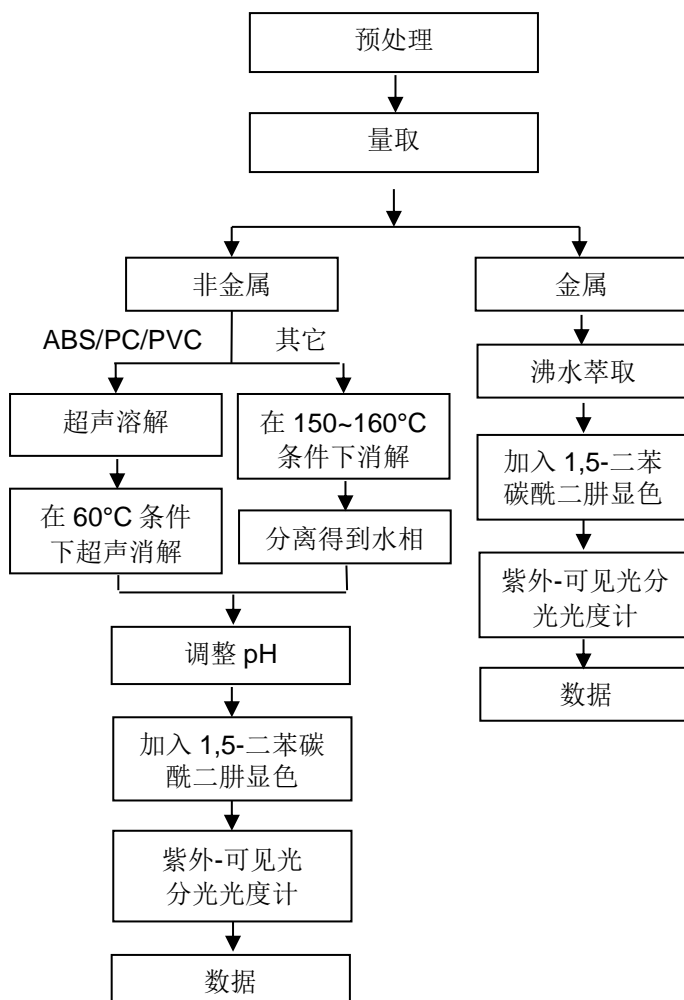
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六价铬检测流程图



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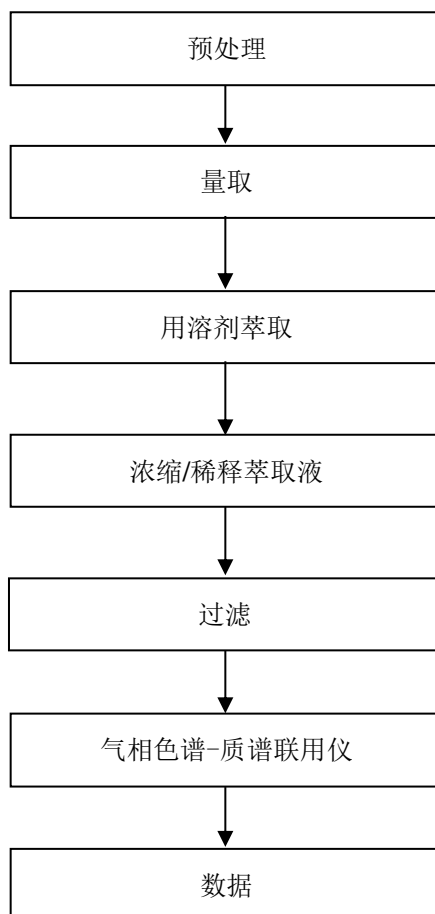
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PBBs/PBDEs 检测流程图



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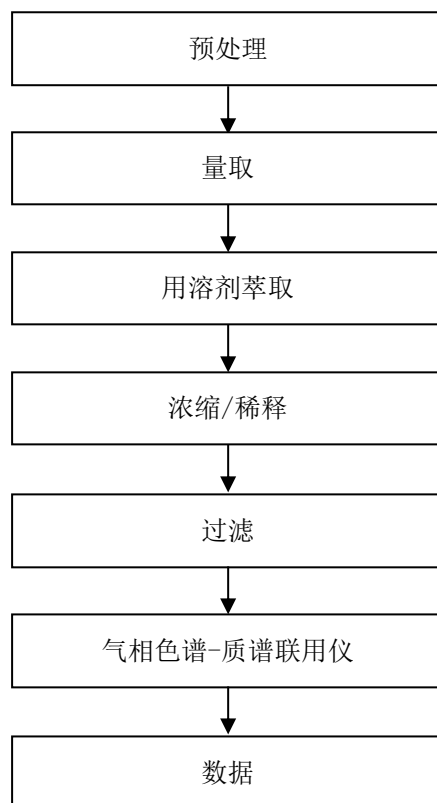
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Phthalates 检测流程图



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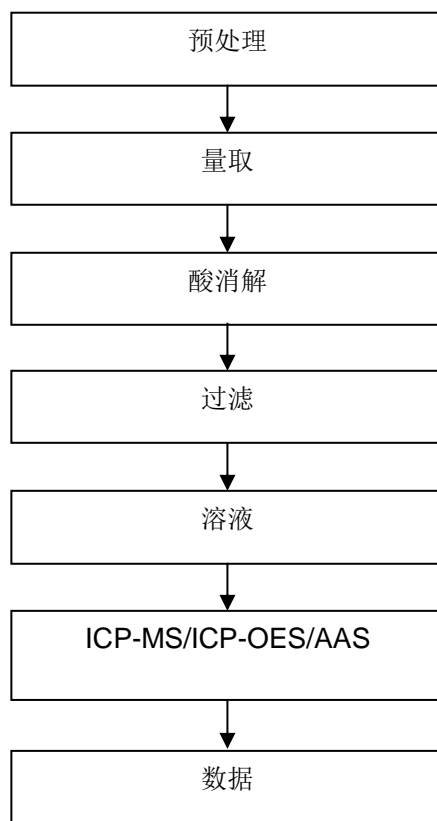
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元素检测流程图



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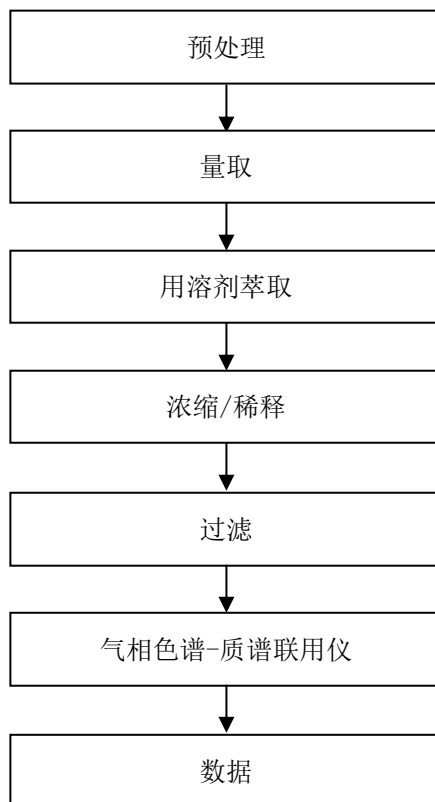
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HBCDD 检测流程图



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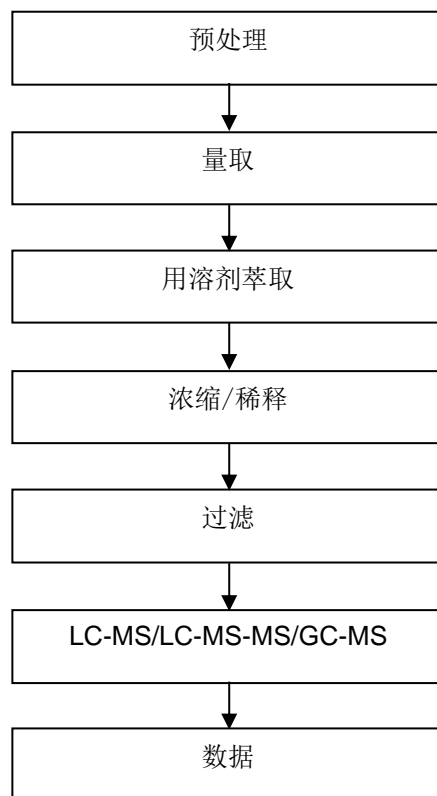
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PFASs/ PFOS/PFOA 检测流程图



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