Test Report
检测报告

No.: CANEC24022243601 **Date:** Oct 15, 2024 Page 1 of 38

日期： 2024 年 10 月 15 日 页码 1 of 38

Client Name: Avery Dennison（China）Co. ltd,.

客户名称： 艾利丹尼森（中国）有限公司

Client Address: No.608 Kunjia Road, Kunshan Economic & Technological Development Zone, Jiangsu Province, P.R.China

客户地址： 江苏省昆山市经济技术开发区昆嘉路 608 号

Sample Name: S333

样品名称: S333

The above sample(s) and information were provided by the client.
以上样品及信息由客户提供。

SGS Job No.:	GZP24-032834
SGS 工作编号:	GZP24-032834
Sample Receiving Date:	Oct 10, 2024
样品接收时间:	2024 年 10 月 10 日
Testing Period:	Oct 10, 2024 ~ Oct 15, 2024
检测周期:	2024 年 10 月 10 日 ~ 2024 年 10 月 15 日
Test Requested:	Select test(s) as requested by the client.
检测要求:	根据客户要求检测
Test Method(s):	Please refer to next page(s).
检测方法:	见后续页。
Test Result(s):	Please refer to next page(s).
检测结果:	见后续页。

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
通标标准技术服务有限公司广州分公司
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Violet Shi 史丽兰
Approved Signatory
批准签署人

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 sgs.china@sgs.com

Test Requirement 检测要求	Conclusion 结论
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) 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 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	Pass 符合
Halogen 卤素	Pass 符合
Phthalates 邻苯二甲酸酯	See Results 见检测结果
Polycyclic Aromatic Hydrocarbons (PAHs) 多环芳香烃(PAHs)	See Results 见检测结果
European Regulation POPs (EU) 2019/1021– Alkanes C_{10}-C_{13}, chloro (short chain-chlorinated paraffins) (SCCPs) 欧盟 POPs 法规(EU) 2019/1021–C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)	Pass 符合
European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) 欧盟 POPs 法规(EU) 2019/1021–六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	Pass 符合
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonic acid (PFOS) and its derivatives 全氟辛酸(PFOA)及其盐&全氟辛烷磺酸(PFOS)及衍生物	Pass 符合
Elementary Analysis 元素分析	See Results 见检测结果

Test Result(s):
检测结果：

Test Part Description：
检测部件外观描述:

SN ID 样品序号	Sample No. 样品编号	SGS Sample ID SGS 样品 ID	Description 样品描述
SN1	A1	CAN24-0222436-0001.C001	White liquid 白色液体

Remarks:
(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

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备注：

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

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)
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 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.
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/AAS，UV-Vis 和 GC-MS 进行分析。

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1
Lead (Pb) / 铅 (Pb)	1000	mg/kg	2	ND
Mercury (Hg) / 汞 (Hg)	1000	mg/kg	2	ND
Cadmium (Cd) / 镉 (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) / 六价铬 (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB) / 多溴联苯之和 (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB) / 一溴联苯 (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB) / 二溴联苯 (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB) / 三溴联苯 (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB) / 四溴联苯 (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB) / 五溴联苯 (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB) / 六溴联苯 (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB) / 七溴联苯 (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB) / 八溴联苯 (OctaBB)	-	mg/kg	5	ND

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Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1
Nonabrominated biphenyl (NonaBB) / 九溴联苯 (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB) / 十溴联苯 (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE) / 多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE) / 一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE) / 二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE) / 三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE) / 四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE) / 五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE) / 六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE) / 七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE) / 八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE) / 九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE) / 十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP) / 邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP) / 邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP) / 邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP) / 邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

Notes:
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

备注：
(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。

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(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。

Halogen
卤素

Test Method: With reference to EN 14582:2016, analysis was performed by IC.
检测方法： 参考 EN 14582:2016，采用 IC 进行分析。

Test Item(s) 检测项目	Limit 限值	Unit(s) 单位	MDL	A1
Fluorine(F) / 氟(F)	-	mg/kg	20	ND
Chlorine(Cl) / 氯(Cl)	900	mg/kg	50	304
Bromine(Br) / 溴(Br)	900	mg/kg	50	131
Chlorine (Cl)+ Bromine (Br) / (氯(Cl),溴(Br))总量	1500	mg/kg	50	435
Iodine(I) / 碘(I)	-	mg/kg	50	ND
Conclusion / 结论				**Pass 符合**

Notes:
The maximum permissible limit is quoted from the client requirement.

备注：
最大允许限值来源于客户要求。

Phthalates
邻苯二甲酸酯

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.
检测方法： 参考 EN 14372:2004，采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Dibutyl Phthalate(DBP) / 邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
Benzyl Butyl Phthalate(BBP) / 邻苯二甲酸丁苄酯(BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate(DEHP) / 邻苯二甲酸二(2-乙基己基) (DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP) / 邻苯二甲酸二异壬酯 (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
Di-n-Octyl Phthalate(DNOP) / 邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND

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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Diisodecyl Phthalate (DIDP) / 邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Dimethyl Phthalate(DMP) / 邻苯二甲酸二甲酯(DMP)	131-11-3	%	0.003	ND
Diethyl Phthalate(DEP) / 邻苯二甲酸二乙酯(DEP)	84-66-2	%	0.003	ND
Dipropyl Phthalate(DPrP) / 邻苯二甲酸二丙酯 (DPrP)	131-16-8	%	0.003	ND
Diisobutyl Phthalate(DIBP) / 邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
Di-n-pentyl Phthalate (DnPP) / 邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%	0.003	ND
Di-n-Hexyl Phthalate(DnHP) / 邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND
Dicyclohexyl Phthalate(DCHP) / 邻苯二甲酸二环己酯(DCHP)	84-61-7	%	0.003	ND
Diphenyl Phthalate(DPhP) / 邻苯二甲酸二苯酯(DPhP)	84-62-8	%	0.003	ND
Dibenzyl Phthalate(DBzP) / 邻苯二甲酸二苄酯 (DBzP)	523-31-9	%	0.003	ND
Dinonyl Phthalate(DNP) / 邻苯二甲酸二壬酯(DNP)	84-76-4	%	0.003	ND
Diisooctyl Phthalate(DIOP) / 邻苯二甲酸二异辛酯(DiOP)	27554-26-3	%	0.010	ND
Bis(2-methoxyethyl)phthalate(DMEP) / 邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	%	0.003	ND
Diisopentyl Phthalate(DIPP) / 邻苯二甲酸二异戊酯(DiPP)	605-50-5	%	0.003	ND
n-pentyl Isopentyl Phthalate(nPIPP) / 邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	%	0.003	ND
1,2-Benzenedicarboxylic Acid,di-C6-8-branched alkyl esters,C7-rich(DIHP) / 1,2-苯二甲酸,二-C6-8 支链烷基酯,富C7(DIHP)	71888-89-6	%	0.010	ND
1,2-Benzenedicarboxylic Acid,Di-C7-11-Branched and Linear Alkyl Esters(DHNUP) / 邻苯二酸-二(C7,C9,C11)烷基酯 (DHNUP)	68515-42-4	%	0.010	ND
1,2-Benzenedicarboxylic Acid,Dipentyl Ester,Branched and Linear(DPP) / 邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%	0.010	ND

Notes:

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(1) DBP, BBP, DEHP, DINP, DNOP, DIDP is/are accredited by CNAS.

备注：
(1) DBP, BBP, DEHP, DINP, DNOP, DIDP 在 CNAS 认可范围内。

Polycyclic Aromatic Hydrocarbons (PAHs)
多环芳香烃(PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.
检测方法： 参考 AfPS GS 2019:01 PAK，采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
Benzo(a)pyrene(BaP) / 苯并(a)芘(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP) / 苯并(e)芘(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA) / 苯并(a)蒽(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF) / 苯并(b)荧蒽(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF) / 苯并(j)荧蒽(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF) / 苯并(k)荧蒽(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR) / 䓛(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA) / 二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE) / 苯并(g,h,i)苝(二萘嵌苯)(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY) / 茚苯(1,2,3-c,d)芘(IPY)	193-39-5	mg/kg	0.1	ND
Acenaphthylene(ANY) / 苊烯(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA) / 苊(萘嵌戊烷)(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU) / 芴(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE) / 菲(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR) / 芘(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT) / 蒽(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT) / 荧蒽(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene / 7 项多环芳香烃总和[苊烯(ANY),苊(萘嵌戊烷)(ANA),芴	-	mg/kg	-	ND

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Test Item(s) 检测项目	CAS No.	Unit(s) 单位	MDL	A1
(FLU),菲(PHE),芘(PYR),蒽(ANT),荧蒽(FLT)]				
Naphthalene(NAP) / 萘(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 18 PAHs / 18 项多环芳香烃总和	-	mg/kg	-	ND

Notes:
Client requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children[a,b] up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[c] with skin during the intended or foreseeable use[d].		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of 7 PAHs (Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

Note:
[a] A “Child” is legally defined as a person before reaching the age of 14 years.
[b] Use by children includes both active and passive contact by children.
[c] Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)
[d] According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) “foreseeable use” shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:

The classification of material categories is refer to AfPS GS 2019:01 PAK issued on 10 April, 2020. The Acenaphthylene (ANY), Acenaphthene (ANA) and Fluorene (FLU) are not in the scope of AfPS 2019:1 PAK which is additionally in scope of AfPS GS 2014:01 PAK and recommended in connection with §30 LFGB product safety requirements.

备注：
客户要求

参数	1 类	**2 类**		**3 类**	
	设计意图为放入口中的材料，或与皮肤长期接触（超过 30 秒）的材料用于 -2009/48/EC 定义的玩具，或 -供 3 岁以下儿童[a,b]使用。	不属于第 1 类，设计意图或可预见[d]与皮肤长期接触（超过 30 秒）或短期重复接触[c]的材料		不属于第 1 和 2 类，设计意图或可预见与皮肤短期接触（不超过 30 秒）材料	
		a.供儿童使用的产品	b.其他产品	a.供儿童使用的产品	b.其他产品
苯并(a)芘 (BaP),mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1

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苯并(b)荧蒽 (BbF) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧蒽 (BkF) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
䓛 (CHR) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝(二萘嵌苯) (BPE) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY) ,mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT),苊烯(ANY),苊(萘嵌戊烷) (ANA),芴 (FLU),7 PAH 之和, mg/kg	< 1 （总和）	< 5 （总和）	< 10 （总和）	< 20 （总和）	< 50 （总和）
萘 (NAP) ,mg/kg	< 1	< 2		< 10	
18 PAH 之和	<1	< 5	< 10	< 20	< 50

注释:
[a] 儿童是指法定年龄未满 14 周岁的人。
[b] 供儿童使用包括儿童的主动接触或被动接触。
[c] “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。
[d] 根据德国产品安全法（ProdSG）（第一章第 2 条第 28 款）的定义，“可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注：材料的分类参考 2020 年 4 月 10 日发布的 AfPS GS 2019:01 PAK 标准。苊烯(ANY)、苊(萘嵌戊烷)(ANA)和芴（FLU）不在 AfPS GS 2019:1 PAK 的范围内，但是结合其在 AfPS GS 2014:01 PAK 的范围内，以及考虑到 LFGB 章节 30 的产品安全要求，推荐进行测试。

European Regulation POPs (EU) 2019/1021– Alkanes C_{10}-C_{13}, chloro (short chain-chlorinated paraffins) (SCCPs)
欧盟 POPs 法规(EU) 2019/1021–C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)

Test Method: With reference to ISO 22818:2021,analysis was performed by GC-NCI-MS.
检测方法： 参考 ISO 22818:2021，采用 GC-NCI-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Alkanes C_{10}-C_{13}, chloro (short chain-chlorinated paraffins) (SCCPs) / C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8 and others 85535-84-8 和其它	1500	mg/kg	50	ND

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Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Conclusion / 结论					**Pass 符合**

Notes:
(1) Method(s) is/are not accredited by CNAS.

备注：
(1) 项目不在 CNAS 认可范围内。

European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)
欧盟 POPs 法规(EU) 2019/1021–六溴环十二烷(HBCDD) 及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.
检测方法： 参考 IEC 62321-9:2021，采用 GC-MS 进行分析。

Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) / 六溴环十二烷(HBCDD)及其非对映异构体(α-HBCDD, β-HBCDD, γ-HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	100	mg/kg	20	ND
Conclusion / 结论					**Pass 符合**

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonic acid (PFOS) and its derivatives
全氟辛酸(PFOA)及其盐&全氟辛烷磺酸(PFOS)及衍生物

Test Method: Modified EN 17681-1:2022, analysis was performed by HPLC-MS or LC-MS/MS.
检测方法： 优化的 EN 17681-1:2022, 采用 HPLC-MS 或 LC-MS/MS 进行分析。

Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
Perfluorooctanoic acid (PFOA), its salts^ / 全氟辛酸 (PFOA), 及其盐^	335-67-1	0.025	mg/kg	0.010	ND
Perfluorooctane sulfonic acid (PFOS), its salts^ / 全氟辛烷磺酸 (PFOS), 及其盐^	1763-23-1	-	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) / N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	-	mg/kg	0.010	ND

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Test Item(s) 检测项目	CAS No.	Limit 限值	Unit(s) 单位	MDL	A1
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) / N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	-	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) / 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-methylperfluoro- 1-octanesulfonamido) -ethanol (N-MeFOSE) / 2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	-	mg/kg	0.010	ND
Perfluorooctane sulfonamide (PFOSA), its salts^ / 全氟辛基磺酰胺 (PFOSA), 及其盐^	754-91-6	-	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^ / N-(全氟-1-辛烷磺酰基)甘氨酸 (FOSAA), 及其盐^	2806-24-8	-	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^ / N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA), 及其盐^	2355-31-9	-	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^ / N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA), 及其盐^	2991-50-6	-	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonic acid (PFOS) and its derivatives / 全氟辛烷磺酸 (PFOS)及其衍生物	-	0.025	mg/kg	-	ND
Conclusion / 结论					**Pass 符合**

Notes:
(1) The maximum permissible limit is quoted from the client requirement.
(2) ^=Substances refer to its salts/derivative listed in below table.
(3) Method(s) is/are not accredited by CNAS.

Substance Name	**CAS No.**
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8

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Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N(C_2H_5)$_4$)	56773-42-3
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-N($C_{10}H_{21}$)$_2$(CH_3)$_2$)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-N(C_4H_9)$_4$)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-N(C_2H_5)$_3$)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-N(CH_3)$_4$)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C_3H_7)$_3$(C_5H_{11}))	56773-56-9
N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C_4H_9)$_3$(CH_3))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)$_4$))	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8

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Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH_4)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$)	76752-82-4
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanote (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6
Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-$NH(C_4H_{10}N)$)	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-$K(H_2O)_2$)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C_5H_5N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-$C_{11}H_{26}N$)	927835-01-6

备注：

(1) 最大允许限值来源于客户要求。
(2) ^=物质是指附表中列出的盐/衍生物。
(3) 项目不在 CNAS 认可范围内。

物质名称	**CAS No.**

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PFOS, 及其盐&衍生物	
全氟辛烷磺酸(PFOS)	1763-23-1
全氟辛基磺酸钾(PFOS-K)	2795-39-3
全氟辛基磺酸锂(PFOS-Li)	29457-72-5
全氟辛基磺酸钠(PFOS-Na)	4021-47-0
全氟辛基磺酸铵(PFOS-NH_4)	29081-56-9
全氟辛基磺酸二乙醇铵(PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8
全氟辛基磺酸四乙基铵(PFOS-$N(C_2H_5)_4$)	56773-42-3
全氟辛基磺酸二癸二甲基铵(PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8
全氟辛基磺酸四丁基铵(PFOS-$N(C_4H_9)_4$)	111873-33-7
全氟辛基磺酰氟(PFOS-F)	307-35-7
双[十七氟辛烷磺酸]镁(PFOS-Mg)	91036-71-4
全氟辛烷磺酸哌啶	71463-74-6
全氟辛烷磺酸盐	45298-90-6
全氟辛烷磺酸三乙基铵(PFOS-$N(C_2H_5)_3$)	54439-46-2
全氟辛烷磺酸四甲基铵(PFOS-$N(CH_3)_4$)	56773-44-5
N, N,N-三丙基戊烷-1-七氟辛烷-1-磺酸铵(PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9
N,N-二丁基-N-甲基丁烷-1-胺十七氟辛烷-1-磺酸酯(PFOS-$N(C_4H_9)_3(CH_3)$)	124472-68-0
双[4-(1,1-二甲基乙基)苯基]-碘鎓与全氟-1-辛烷磺酸的盐(1:1)	213740-80-8
全氟-1-辛烷磺酸二苯基(2,4,6-三甲基苯基)锍	258341-99-0
全氟-1-辛烷磺酸 1-十六烷基吡啶鎓	334529-63-4
N,N,N-三乙基癸-1-胺十七氟辛烷-1-磺酸盐	773895-92-4
全氟辛烷磺酸四丁基鏻 (PFOS-P ($C_4H_9)_4$))	2185049-59-4
全氟辛基磺酸二乙胺 (PFOS-$C_4H_{11}N$)	2205029-08-7
全氟辛基磺酸庚基二甲基-[2-(2-甲基丙-2-烯酰氧基)乙基]胺 (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
全氟辛基磺酸酐(PFOSAN)	423-92-7
FOSAA, 及其盐	
N-(全氟-1-辛烷磺酰基)甘氨酸(FOSAA)	2806-24-8
全氟辛烷磺酰氨基乙酸盐 (FOSAA(anion))	909405-47-6
全氟辛烷磺酰氨基乙酸钾 (FOSAA-K)	75260-69-4
全氟辛烷磺酰氨基乙酸钠 (FOSAA-Na)	115716-87-5
N-MeFOSAA, 及其盐	
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9
N-(十七氟辛基磺酰基)-N-甲基甘氨酸盐 (N-Me-FOSAA(anion))	909405-48-7
N-(十七氟辛基磺酰基)-N-甲基甘氨酸钾 (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, 及其盐	
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸(N-EtFOSAA)	2991-50-6
N-乙基-N-[(十七烷氟辛基)磺酰基]-甘氨酸钾盐 (N-Et-FOSAA-K)	2991-51-7
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸盐 (N-Et-FOSAA(anion))	909405-49-8

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N-乙基-N-((十七氟辛基)磺酰基)甘氨酸铵 (N-Et-FOSAA-NH_4)	2991-52-8
N-乙基-N-((十七氟辛基)磺酰基)甘氨酸钠 (N-Et-FOSAA-Na)	3871-50-9
PFOSA, 及其盐	
全氟辛基磺酰胺(PFOSA)	754-91-6
全氟辛基磺酰胺锂盐(1:1)(PFOSA-Li)	76752-79-9
全氟辛基磺酰胺钠盐 (1:1) (PFOSA-Na)	76752-78-8
全氟辛基磺酰胺钾盐 (1:1) (PFOSA-K)	76752-70-0
全氟辛基磺酰胺铵盐 (1:1) (PFOSA-NH_4)	76752-72-2
全氟辛基磺酰胺三乙胺 (PFOSA-$C_6H_{15}N$)	76752-82-4
PFOA, 及其盐&衍生物	
全氟辛酸(PFOA)	335-67-1
全氟辛酸钠(PFOA-Na)	335-95-5
全氟辛酸钾(PFOA-K)	2395-00-8
全氟辛酸银(PFOA-Ag)	335-93-3
全氟辛酰氟(PFOA-F)	335-66-0
全氟辛酸铵(APFO)	3825-26-1
全氟辛酸锂(PFOA-Li)	17125-58-5
全氟辛酸钴(PFOA-Co)	35965-01-6
全氟辛酸铯(PFOA-Cs)	17125-60-9
全氟辛酸铬(3+) (PFOA-Cr(3+))	68141-02-6
全氟辛酸-哌嗪(2:1) (PFOA-NH($C_4H_{10}N$))	423-52-9
全氟辛酸盐	45285-51-6
全氟辛酸酐	33496-48-9
全氟辛酸四乙基胺	98241-25-9
全氟辛酸四甲基胺	32609-65-7
全氟辛酸四丙基胺	277749-00-5
全氟辛酸钾水合物 (PFOA-K(H_2O)$_2$)	98065-31-7
全氟辛酸乙胺 (PFOA-C_2H_7N)	1376936-03-6
全氟辛酸吡啶 (PFOA-C_5H_5N)	95658-47-2
全氟辛酸苯基哌嗪 (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
全氟辛酸辛基三甲基铵 (PFOA-$C_{11}H_{26}N$)	927835-01-6

Elementary Analysis
元素分析

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.
检测方法： 参考 US EPA 3052:1996，采用 ICP-OES/AAS 进行分析。

Test Item(s) 检测项目	Unit(s) 单位	MDL	A1
Beryllium(Be) / 铍(Be)	mg/kg	5	ND
Antimony(Sb) / 锑(Sb)	mg/kg	10	ND

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Notes:
(1) Method(s) is/are not accredited by CNAS.

备注：
(1) 项目不在 CNAS 认可范围内。

Remark : The result(s) shown is/are of the total weight of dried sample.
备注：所示结果为烘干样品总重量中的含量。
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.
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The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc… and just for internal reference.
除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。
除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。
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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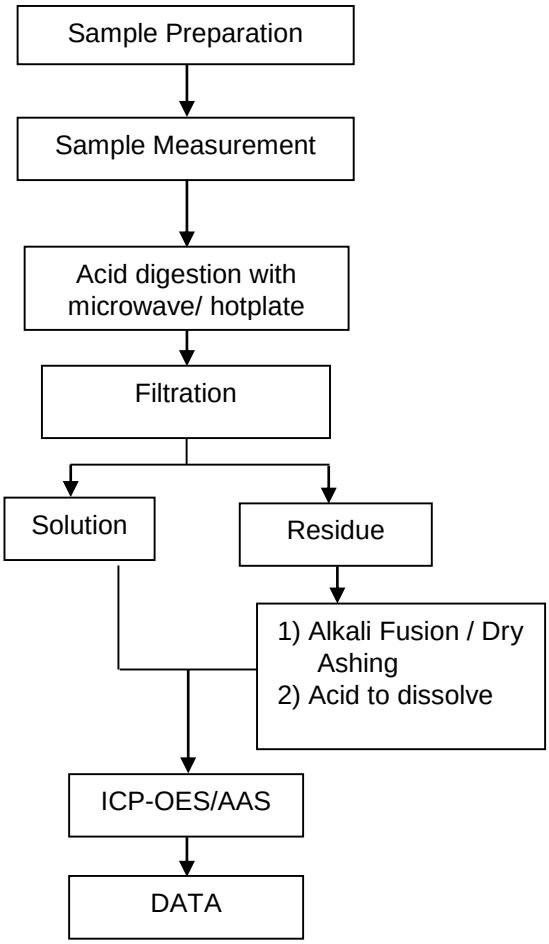
ATTACHMENTS

Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



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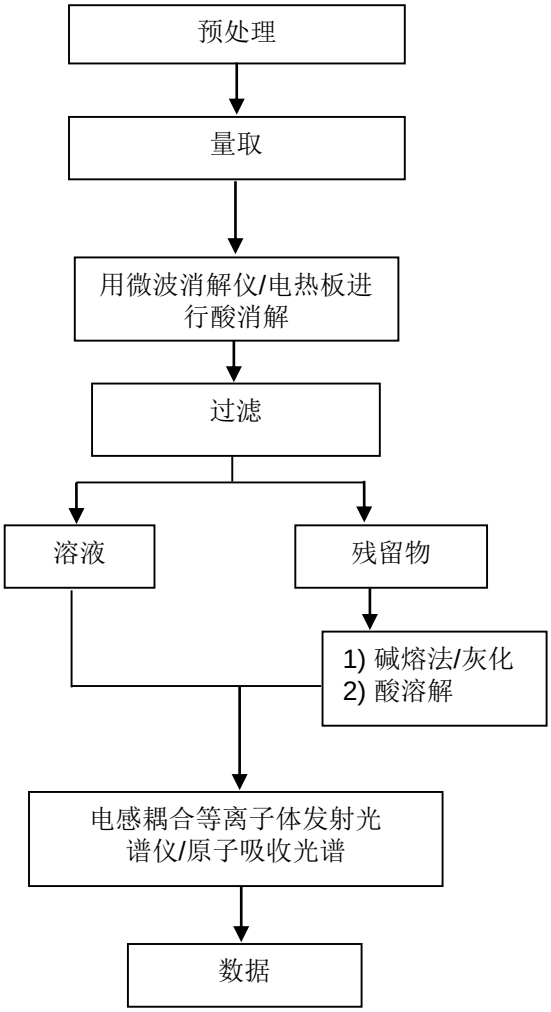
附件

元素检测流程图

样品按照下述流程被完全消解



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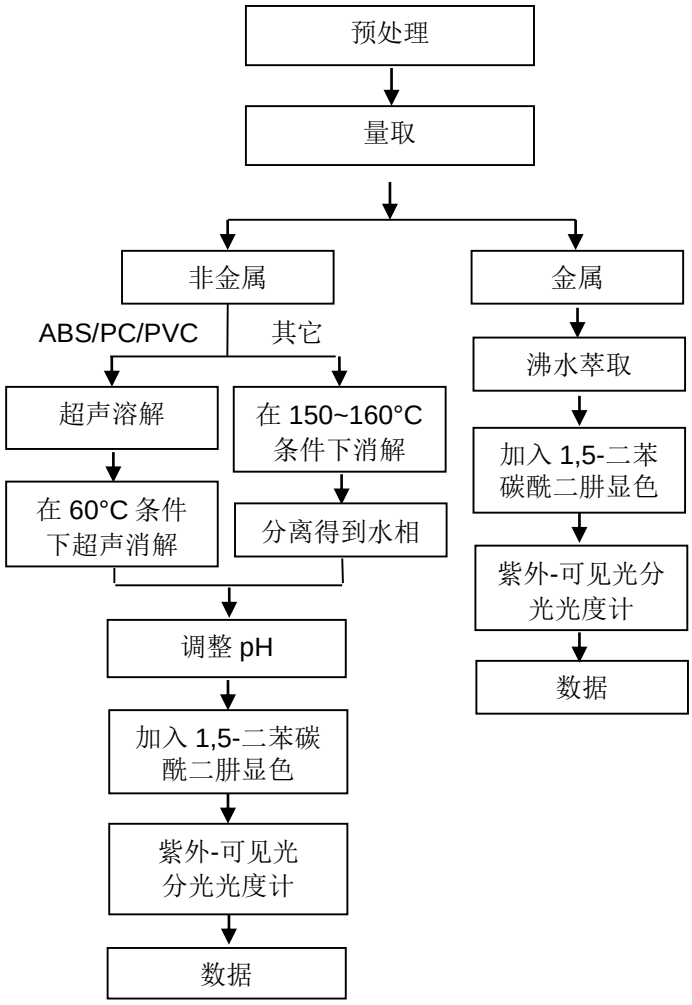
附件

六价铬检测流程图



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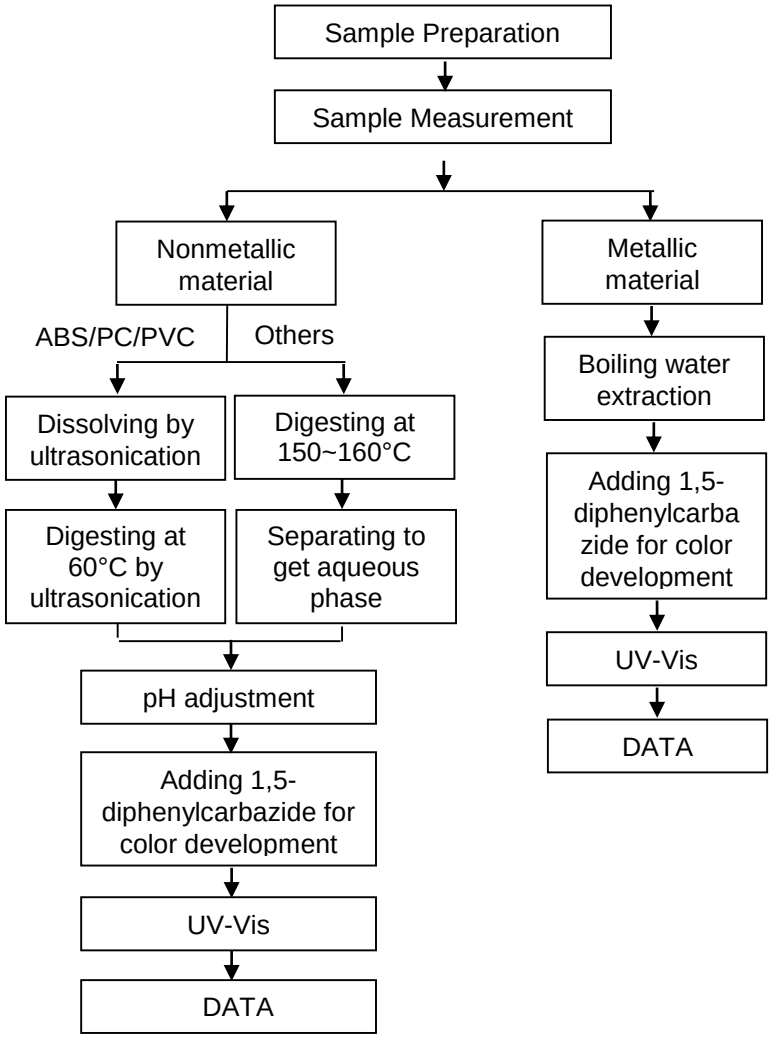
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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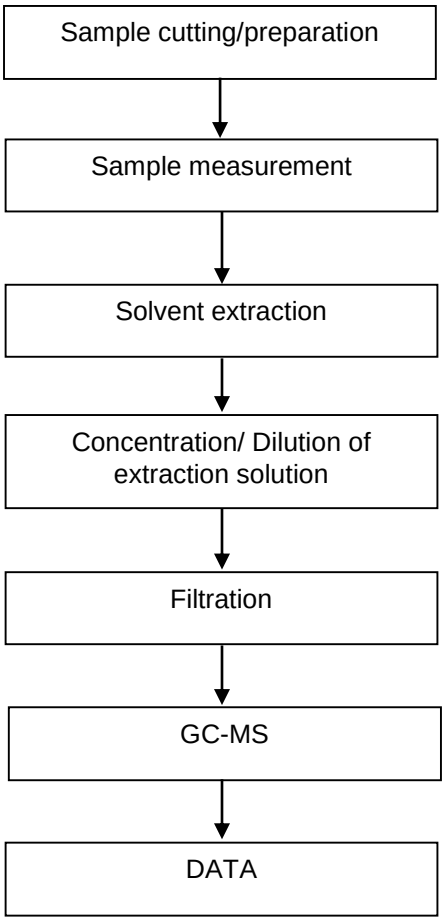
PBB/PBDE Testing Flow Chart



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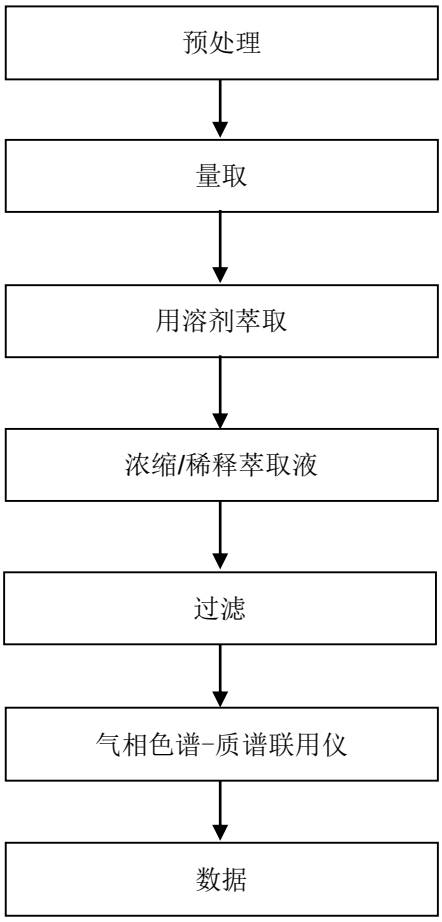
PBB/PBDE 检测流程图



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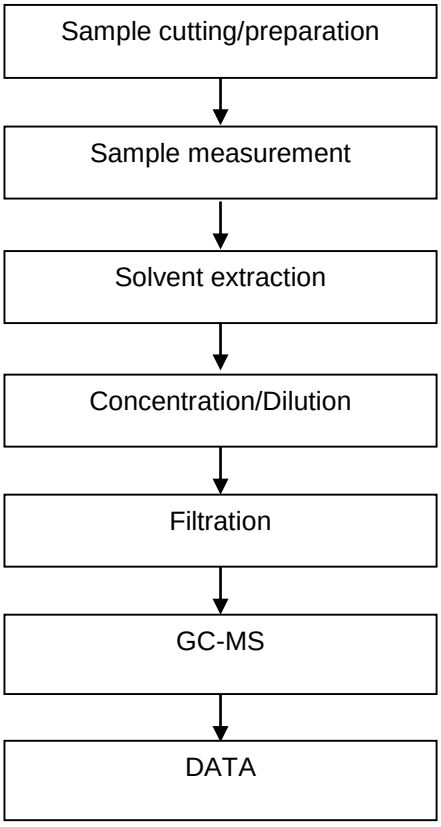
Phthalates Testing Flow Chart



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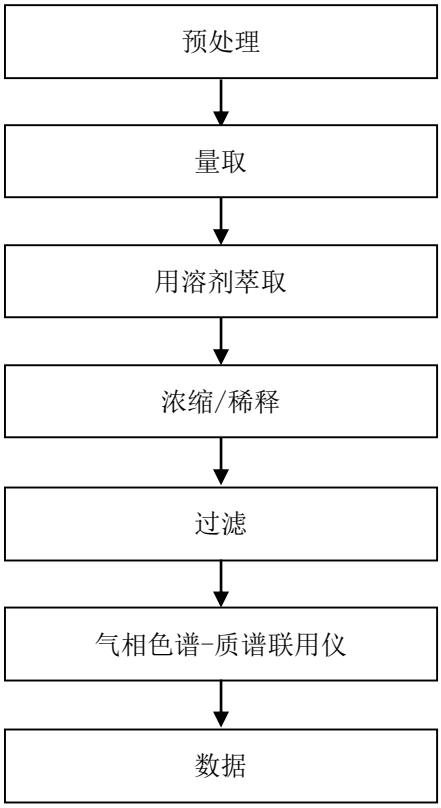
Phthalates 检测流程图



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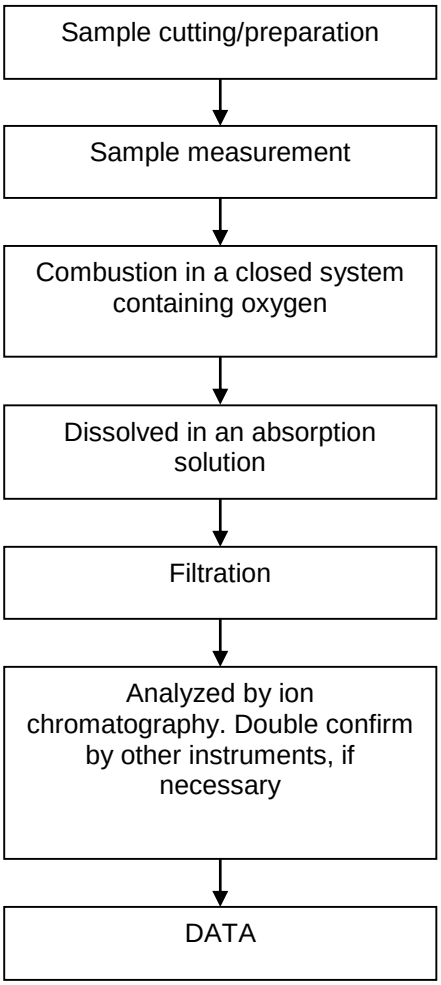
Halogen Testing Flow Chart



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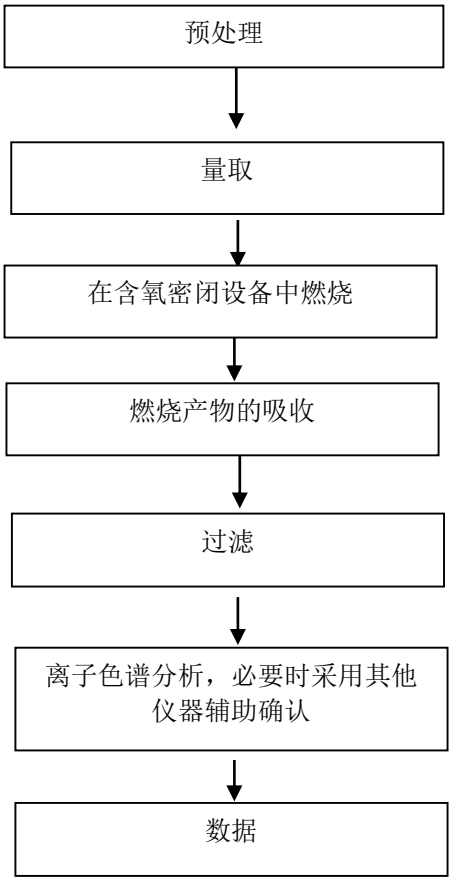
卤素检测流程图



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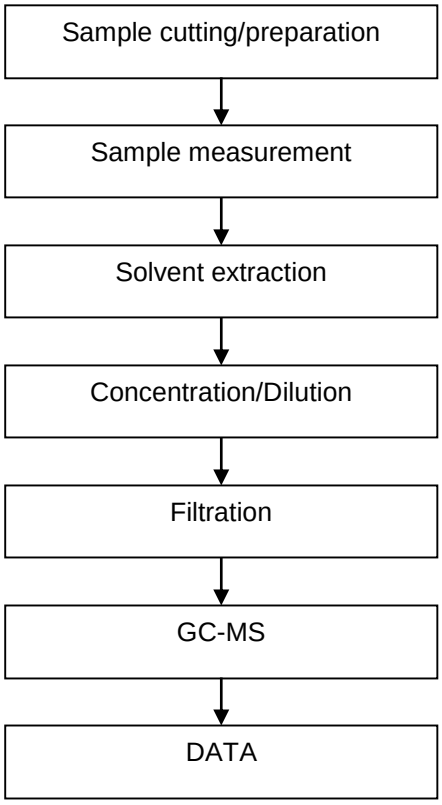
PAHs Testing Flow Chart



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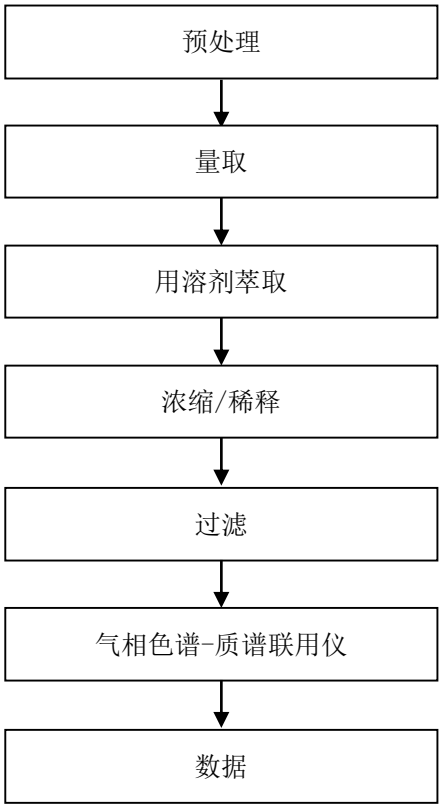
PAHs 检测流程图



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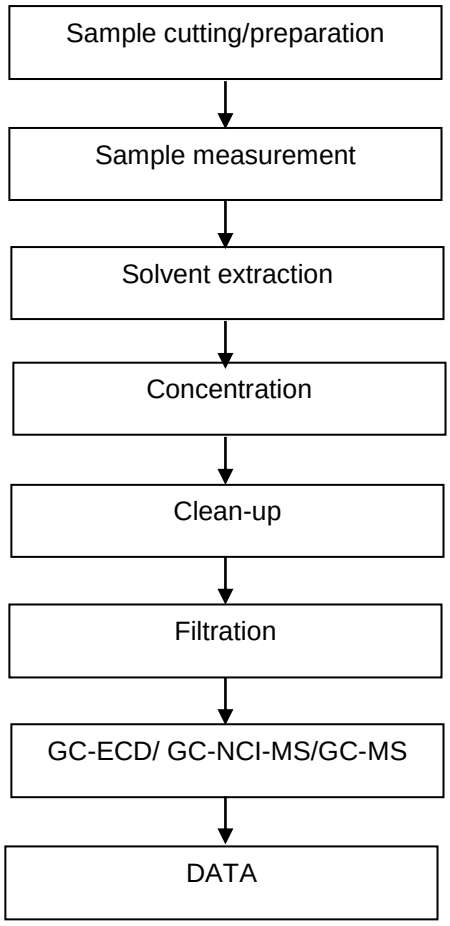
Chlorinated Paraffin Testing Flow Chart



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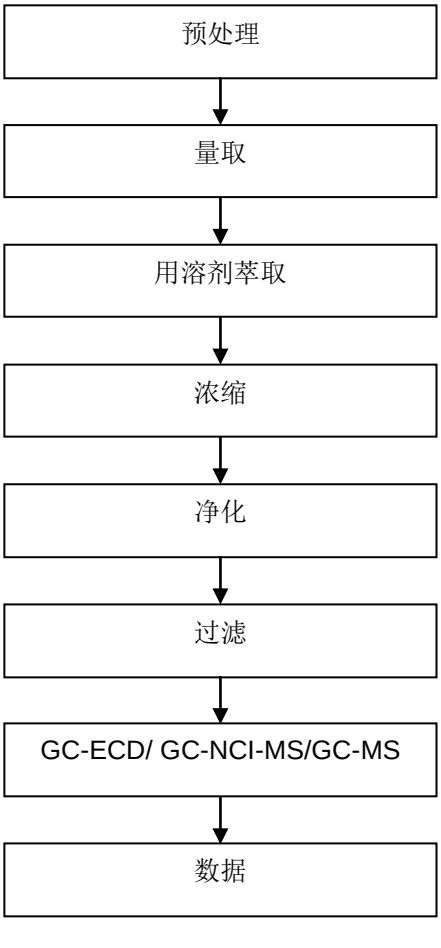
氯化石蜡检测流程图



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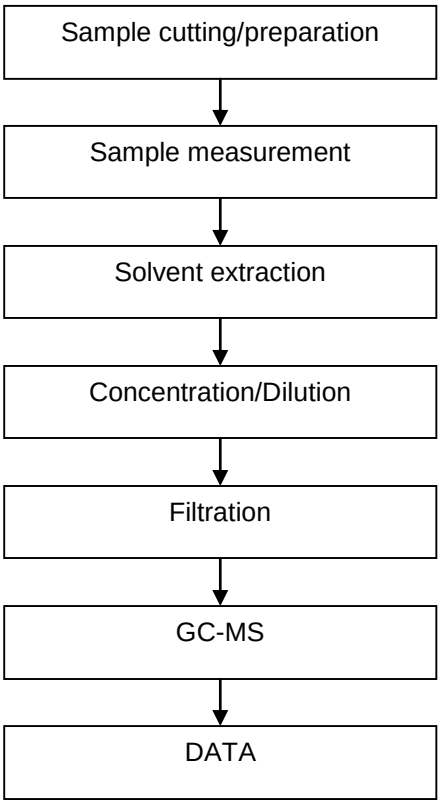
HBCDD Testing Flow Chart



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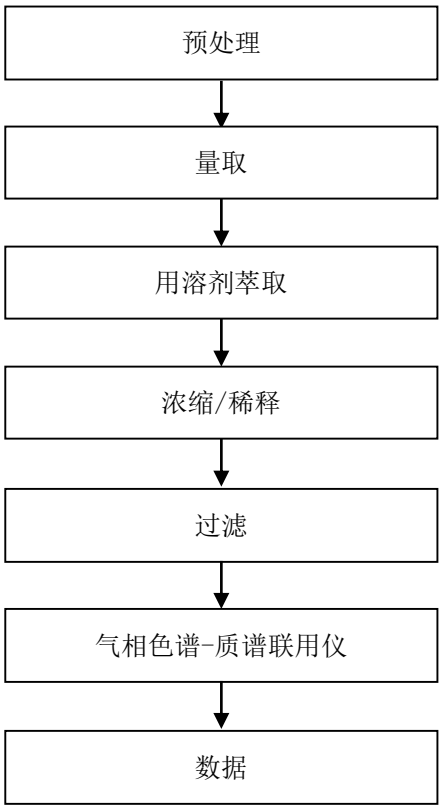

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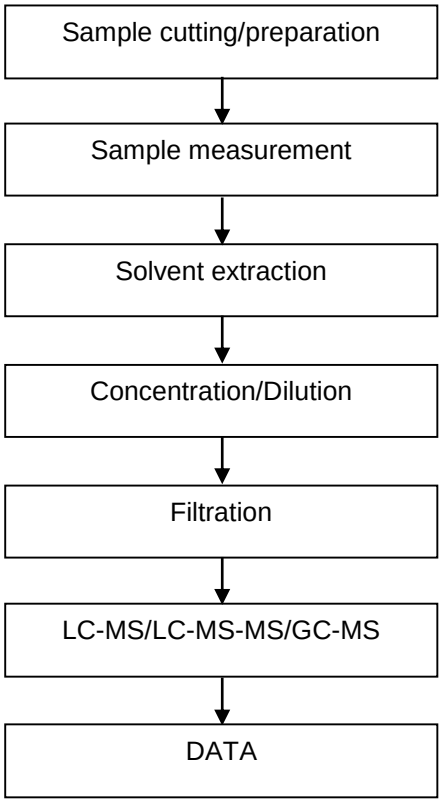
PFASs/ PFOS/PFOA Testing Flow Chart



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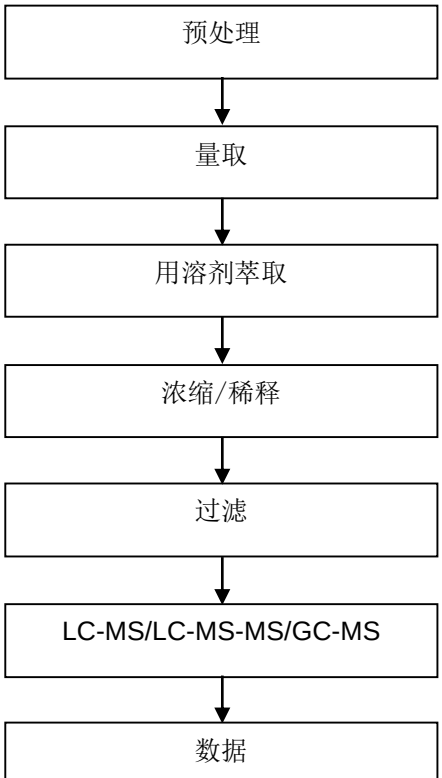
PFASs/ PFOS/PFOA 检测流程图



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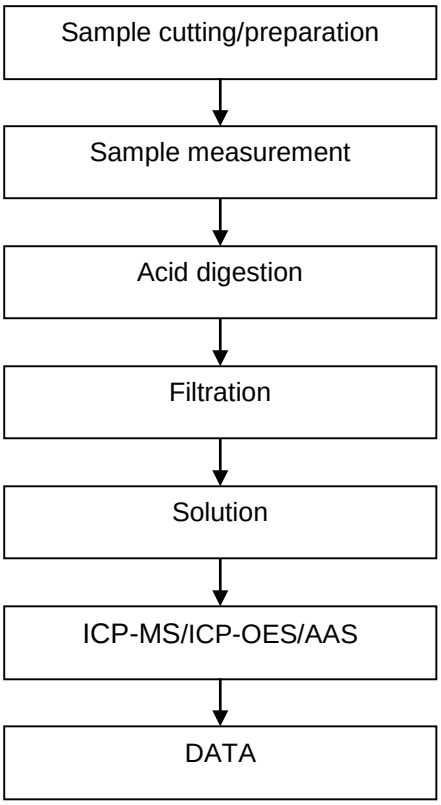
Elements Testing Flow Chart



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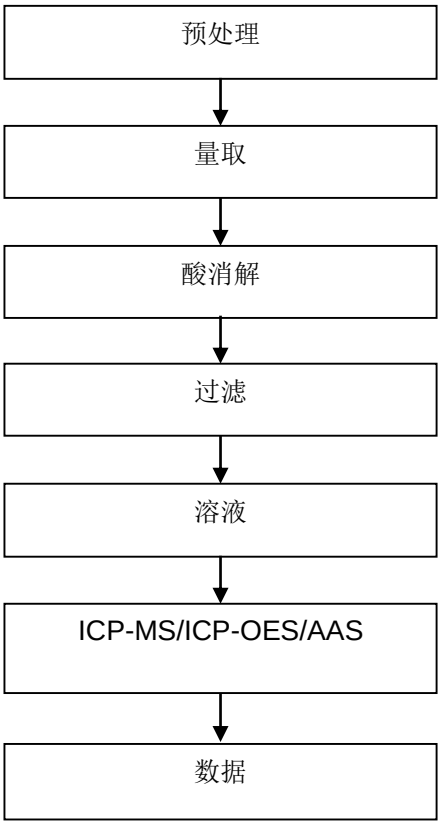
元素检测流程图



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Sample Photo:
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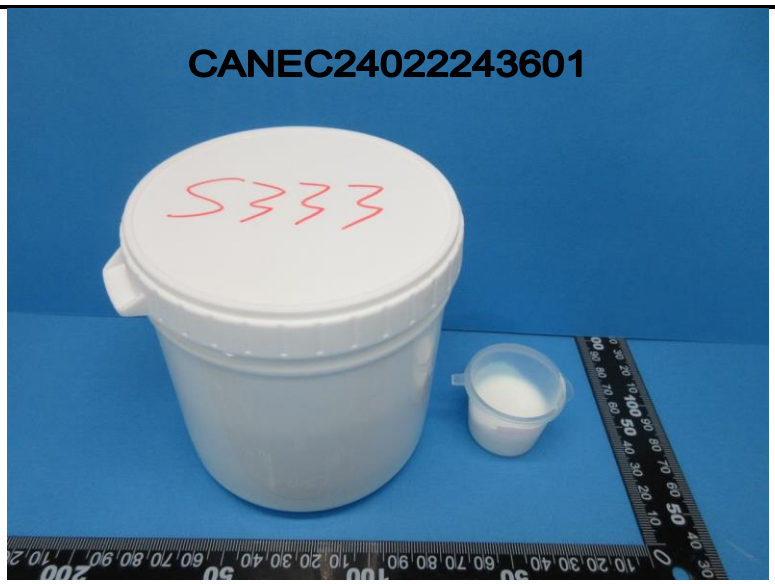

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