

Heavy Metals

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Prepared: 15 October 2026

Test Report

Report No.: A2250285730102001C

Field	Information
Company	Hubei Kaijie New Environmental Protection Materials Co., Ltd.
Address	Park Road 2, Economic Development Zone, Yuyue Town, Jiayu County, Xianning City, Hubei Province, China
Sample	Prefabricated wall panel
Received	2025.04.29
Test period	2025.04.29-2025.05.06
Approved by	Chen Kaimin, Laboratory Manager
Date	2025.05.06
Control No.	S360271577
Accreditation marks	CMA 210900341277; CNAS L5541; ilac-MRA

At the client's request, the submitted sample was tested for lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr(VI)), polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs) and phthalates (DBP, BBP, DEHP and DIBP). See following pages for methods and results.

Conclusion: the submitted sample conforms to EU RoHS Directive 2011/65/EU and amendment Directive (EU) 2015/863. Conforms means that the results meet the limits in those directives.

Shanghai CTI Product Standard Testing Co., Ltd. | No. 1351 Wanfang Road, Minhang District, Shanghai, China

Test Methods

Item	Method	Instrument
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent chromium (Cr(VI))	IEC 62321-7-2:2017 and/or IEC 62321-5:2013 for total chromium	UV-Vis / ICP-OES
PBBs	IEC 62321-12:2023	GC-MS
PBDEs	IEC 62321-12:2023	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS

Heavy Metals, PBBs and PBDEs

Item	Result (001)	Detection limit (mg/kg)	Limit (mg/kg)
Lead	N.D.	2	1000
Cadmium	N.D.	2	100
Mercury	N.D.	2	1000
Hexavalent chromium	N.D.	8	1000

Polybrominated biphenyls (PBBs):

Congener group	Result (001)	Detection limit (mg/kg)
monobromobiphenyl	N.D.	25
dibromobiphenyl	N.D.	25
tribromobiphenyl	N.D.	25
tetrabromobiphenyl	N.D.	25
pentabromobiphenyl	N.D.	25
hexabromobiphenyl	N.D.	25
heptabromobiphenyl	N.D.	25
octabromobiphenyl	N.D.	25
nonabromobiphenyl	N.D.	25
decabromobiphenyl	N.D.	25

PBBs group limit: 1000 mg/kg.

Polybrominated diphenyl ethers (PBDEs):

Congener group	Result (001)	Detection limit (mg/kg)
monobromodiphenyl ether	N.D.	25
dibromodiphenyl ether	N.D.	25
tribromodiphenyl ether	N.D.	25
tetrabromodiphenyl ether	N.D.	25
pentabromodiphenyl ether	N.D.	25
hexabromodiphenyl ether	N.D.	25
heptabromodiphenyl ether	N.D.	25
octabromodiphenyl ether	N.D.	25
nonabromodiphenyl ether	N.D.	25
decabromodiphenyl ether	N.D.	25

PBDEs group limit: 1000 mg/kg.

Phthalate Results and Sample Description

Item / CAS No.	Result (001)	Detection limit (mg/kg)	Limit (mg/kg)
Dibutyl phthalate (DBP), 84-74-2	N.D.	50	1000
Benzyl butyl phthalate (BBP), 85-68-7	N.D.	50	1000
Bis(2-ethylhexyl) phthalate (DEHP), 117-81-7	N.D.	50	1000
Diisobutyl phthalate (DIBP), 84-69-5	N.D.	50	1000

Sample No. 1; CTI Sample ID 001; white plastic with pale-yellow film. Samples tested for lead, cadmium and mercury were completely digested.

N.D. = not detected (below the method detection limit). mg/kg = ppm = parts per million. 1000 mg/kg = 0.1%.

Test Procedures

1. Lead, cadmium and chromium: weigh sample into a container; add digestion reagent; digest; filter. Treat residue by ashing / alkaline boiling / acid boiling. Make the solution up to volume with deionized water and analyze by ICP-OES.
2. Mercury: weigh sample into a container; add digestion reagent; digest; filter. Treat residue by alkaline boiling / acid boiling. Make the solution up to volume with deionized water and analyze by ICP-OES.
3. Hexavalent chromium: weigh sample into a container; add digestion reagent; digest; cool and filter; adjust pH; add test solution; adjust pH; make up to volume with deionized water; analyze by UV-Vis.
4. PBBs and PBDEs: weigh sample into an extraction thimble; extract with organic solvent; transfer extract to a volumetric flask; make up to volume with organic solvent; analyze by GC-MS.

Phthalate Test Procedure

5. Phthalates (DBP, BBP, DEHP, DIBP): weigh sample into an extraction thimble; extract with organic solvent; transfer extract to a volumetric flask; make up to volume with organic solvent; analyze by GC-MS.

Sample Photographs and Declarations

See the complete source attachment for sample photographs.

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检测报告

报告编号 A2250285730102001C

第 1 页 共 7 页

报告抬头公司名称 湖北开杰新型环保材料有限公司

地 址 湖北省咸宁市嘉鱼县鱼岳镇经济开发区园区二路

以下测试之样品及样品信息由申请者提供并确认

样品名称 装配式墙板

样品接收日期 2025.04.29

样品检测日期 2025.04.29-2025.05.06

检测要求 根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)进行测试。

检测依据 请参见下页。

检测结果 请参见下页。

结论

测试样品

依据标准/指令

结果

提交样品

欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863

符合

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。



陈凯敏

陈凯敏

实验室经理

上海华测品标检测技术有限公司

日 期

2025.05.06

No. S360271577

上海市闵行区万芳路1351号

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检测依据

测试项目	测试方法	测试仪器
铅 (Pb)	IEC 62321-5:2013	ICP-OES
镉 (Cd)	IEC 62321-5:2013	ICP-OES
汞 (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 (Cr (VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量	UV-Vis/ICP-OES
多溴联苯 (PBBs)	IEC 62321-12:2023	GC-MS
多溴二苯醚 (PBDEs)	IEC 62321-12:2023	GC-MS
邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP)	IEC 62321-12:2023	GC-MS

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检测结果

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测试项目	结果	方法检出限	限值
	001		
铅 (Pb)	N. D.	2 mg/kg	1000 mg/kg
镉 (Cd)	N. D.	2 mg/kg	100 mg/kg
汞 (Hg)	N. D.	2 mg/kg	1000 mg/kg
六价铬 (Cr (VI))	N. D.	8 mg/kg	1000 mg/kg

测试项目	结果	方法检出限	限值
	001		
多溴联苯 (PBBs)			
一溴联苯	N. D.	25 mg/kg	1000 mg/kg
二溴联苯	N. D.	25 mg/kg	
三溴联苯	N. D.	25 mg/kg	
四溴联苯	N. D.	25 mg/kg	
五溴联苯	N. D.	25 mg/kg	
六溴联苯	N. D.	25 mg/kg	
七溴联苯	N. D.	25 mg/kg	
八溴联苯	N. D.	25 mg/kg	
九溴联苯	N. D.	25 mg/kg	
十溴联苯	N. D.	25 mg/kg	

测试项目	结果	方法检出限	限值
	001		
多溴二苯醚 (PBDEs)			
一溴二苯醚	N. D.	25 mg/kg	1000 mg/kg
二溴二苯醚	N. D.	25 mg/kg	
三溴二苯醚	N. D.	25 mg/kg	
四溴二苯醚	N. D.	25 mg/kg	
五溴二苯醚	N. D.	25 mg/kg	
六溴二苯醚	N. D.	25 mg/kg	
七溴二苯醚	N. D.	25 mg/kg	
八溴二苯醚	N. D.	25 mg/kg	
九溴二苯醚	N. D.	25 mg/kg	
十溴二苯醚	N. D.	25 mg/kg	

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检测结果

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测试项目	结果	方法检出限	限值
	001		
邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP)			
邻苯二甲酸二丁酯 (DBP) CAS#:84-74-2	N. D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 (BBP) CAS#:85-68-7	N. D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二 (2-乙基) 己酯 (DEHP) CAS#:117-81-7	N. D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 (DIBP) CAS#:84-69-5	N. D.	50 mg/kg	1000 mg/kg

样品/部位描述

序号	CTI样品ID	描述
1	001	白色塑料带淡黄色膜

备注： 对于检测铅，镉，汞之样品已消解完全。

-N.D. = 未检出 (小于方法检出限)

-mg/kg = ppm = 百万分之一

-1000 mg/kg = 0.1%

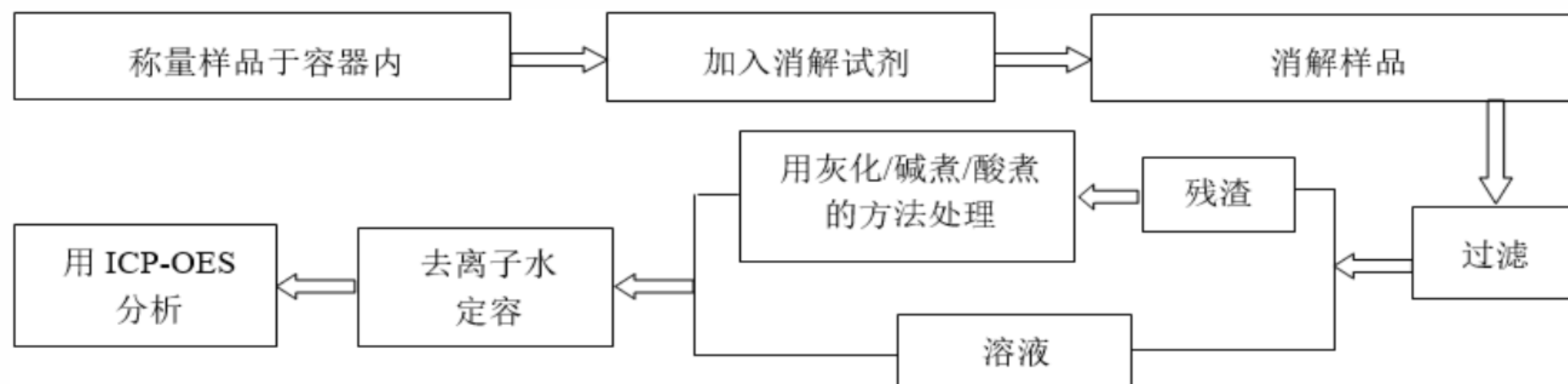
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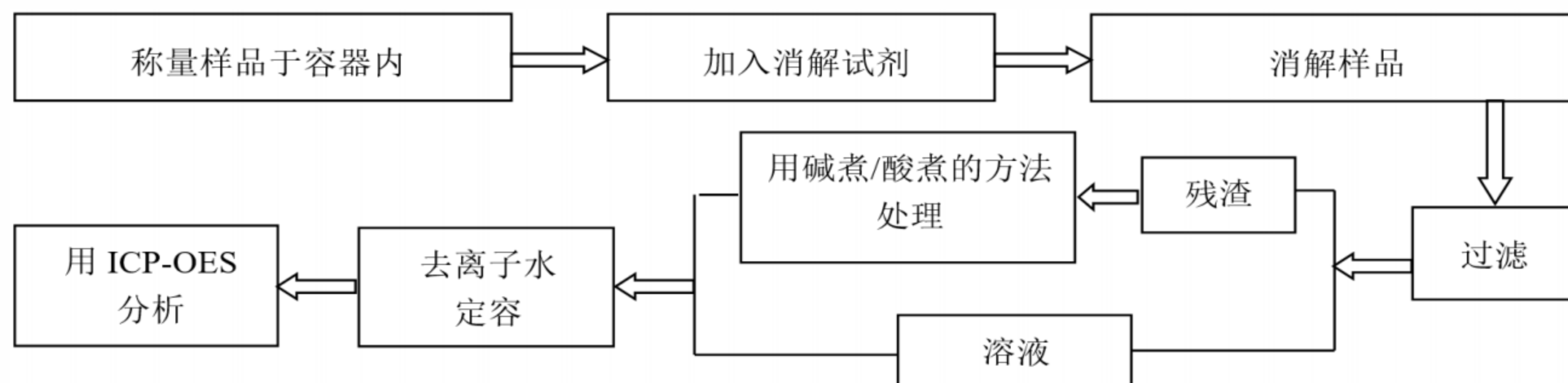
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检测流程

1. 铅(Pb), 镉(Cd), 铬(Cr)



2. 汞(Hg)



3. 六价铬(Cr(VI))



4. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)

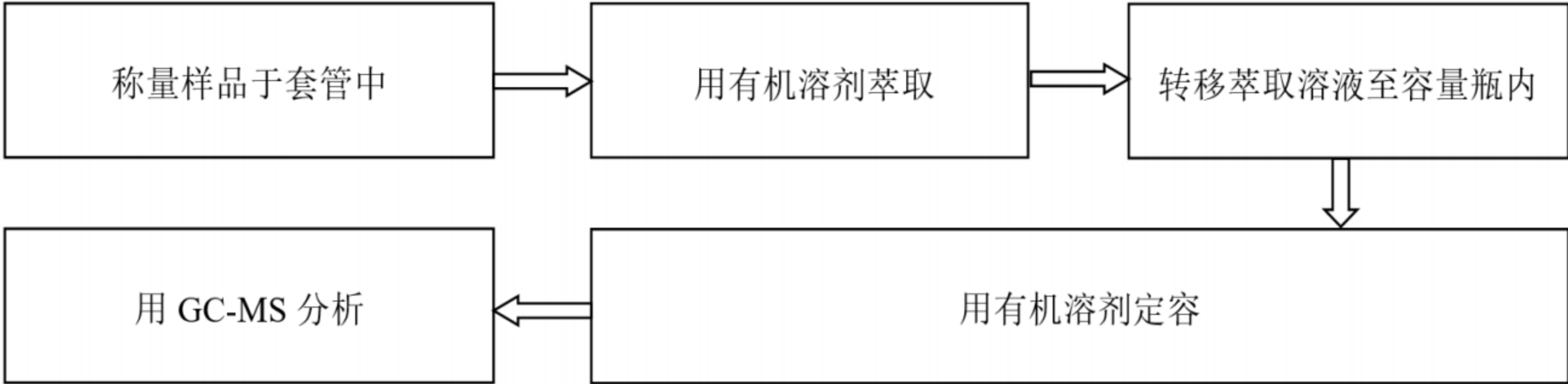


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5. 邻苯二甲酸酯 (DBP, BBP, DEHP, DIBP)



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样品图片



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