



# 检测报告

## Test Report

报告编号 A223067111110102E  
Report No. A223067111110102E

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报告抬头公司名称 鸿利智汇集团股份有限公司广州分公司  
Company Name HONGLI ZHIHUI GROUP CO.,LTD. GUANGZHOU BRANCH  
shown on Report  
地 址 广州市花都区花东镇先科一路 1 号 2 栋 316 室  
Address ROOM 316, BUILDING 2, NO.1, XIANKE YI ROAD, HUADONG TOWN, HUADU DISTRICT, GUANGZHOU, CHINA

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称 COB LH Series  
Sample Name COB LH Series  
样品接收日期 2023.12.21  
Sample Received Date Dec. 21, 2023  
样品检测日期 2023.12.21-2024.01.02  
Testing Period Dec. 21, 2023 to Jan. 2, 2024

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。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

检测依据/检测结果 请参见下页。  
Test Method/Test Result(s) Please refer to the following page(s).

批 准  
Approved by

郑晴涛

日 期  
Date

2024.01.09

郑晴涛

技术经理 Technical Manager

No. R177731911

华测检测认证集团股份有限公司

广东省深圳市宝安区新安街道兴东社区华测检测大楼

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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### 检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321-7-2:2017 和/或 IEC 62321-5:2013 测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

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**检测结果 Test Result(s)**

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL	限值 Limit <sup>▲</sup>
	005	006		
铅 Lead (Pb)	N.D.	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	--	8 mg/kg	1000 mg/kg
	--	N.D.▼	0.10 µg/cm <sup>2</sup> (LOQ)	1000 mg/kg

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL	限值 Limit <sup>▲</sup>
	005			
<b>多溴联苯 Polybrominated Biphenyls (PBBs)</b>				
一溴联苯 Monobromobiphenyl	N.D.		5 mg/kg	1000 mg/kg
二溴联苯 Dibromobiphenyl	N.D.		5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.		5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.		5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.		5 mg/kg	
六溴联苯 Hexabromobiphenyl	N.D.		5 mg/kg	
七溴联苯 Heptabromobiphenyl	N.D.		5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.		5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.		5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.		5 mg/kg	

测试项目 Tested Item(s)	结果 Result		方法检出限 MDL	限值 Limit <sup>▲</sup>
	005			
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>				
一溴二苯醚 Monobromodiphenyl ether	N.D.		5 mg/kg	1000 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.		5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.		5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.		5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.		5 mg/kg	
六溴二苯醚 Hexabromodiphenyl ether	N.D.		5 mg/kg	
七溴二苯醚 Heptabromodiphenyl ether	N.D.		5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.		5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.		5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.		5 mg/kg	

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit <sup>▲</sup>
	005		
<b>邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)</b>			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

**样品/部位描述 Sample/Part Description**

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	005	所有部件混测 (非金属) Mixed test, all parts(Nonmetal)
2	006	所有部件混测 (金属) Mixed test, all parts(Metal)

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备注: -对于检测铅, 镉, 汞之样品已消解完全。  
-样品的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量。  
-▲= 此限值引自欧盟 RoHS 指令 2011/65/EU 及其修订指令(EU) 2015/863  
-N.D. = 未检出 (小于方法检出限或定量限)  
-mg/kg = ppm = 百万分之一  
-1000 mg/kg = 0.1%  
-LOQ = 定量限, 六价铬的定量限为 0.10  $\mu\text{g}/\text{cm}^2$   
-▼六价铬浓度小于 0.10  $\mu\text{g}/\text{cm}^2$ , 样品未检出六价铬。由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

Remark: -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.  
- The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.  
-▲= The limit is quoted from RoHS Directive 2011/65/EU with amendment (EU) 2015/863  
-MDL = Method Detection Limit  
-N.D. = Not Detected (<MDL or LOQ)  
-mg/kg = ppm = parts per million  
-1000 mg/kg = 0.1%  
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$   
-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . The coating is considered a non-Cr(VI) based coating. Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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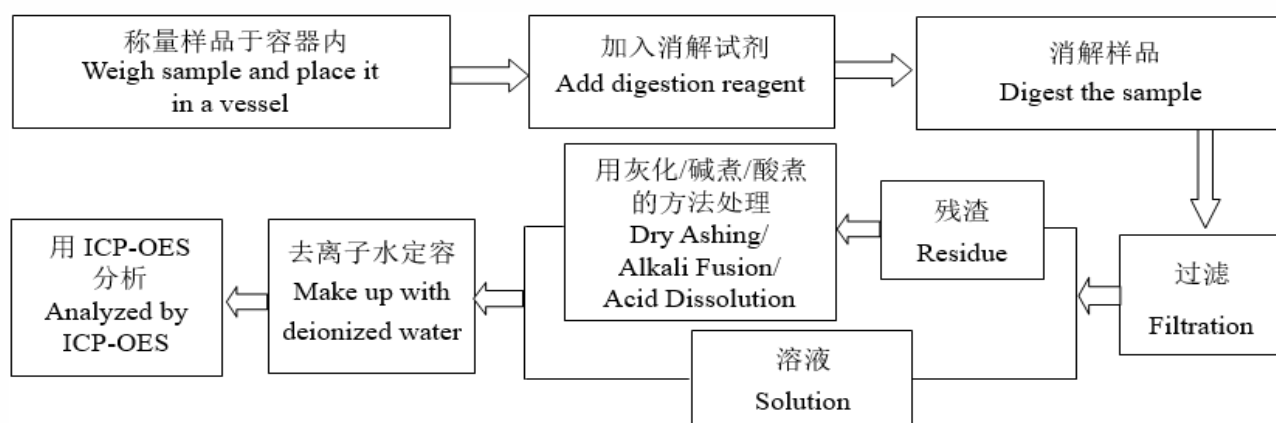
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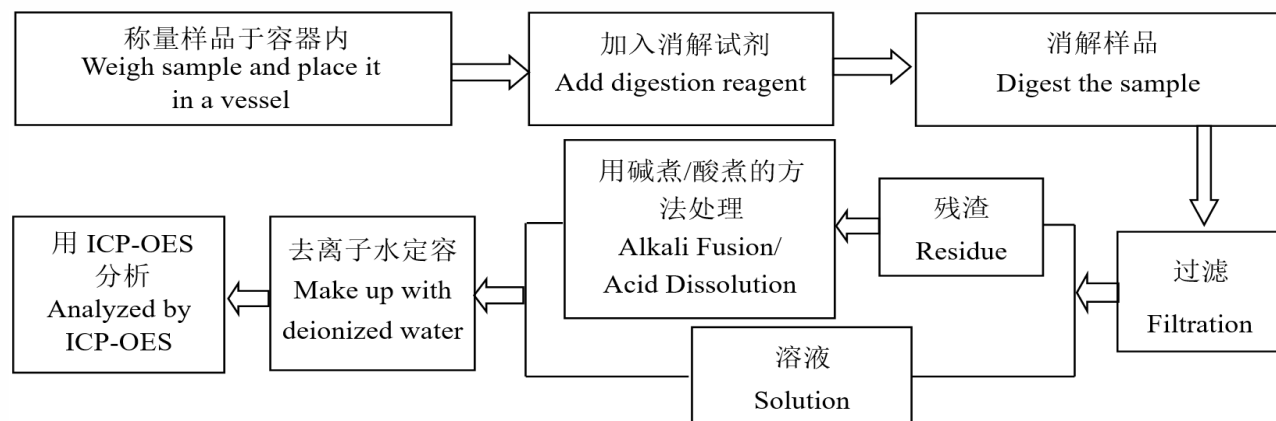
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## 检测流程 Test Process

### 1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium (Cr)

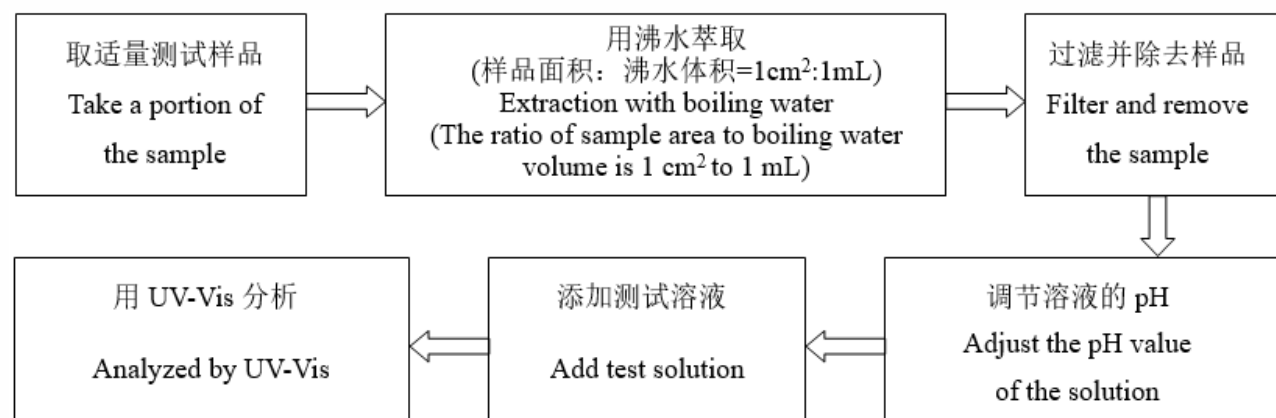


### 2. 汞 Mercury (Hg)



### 3. 六价铬 Hexavalent Chromium (Cr(VI))

#### (1) IEC 62321-7-1:2015

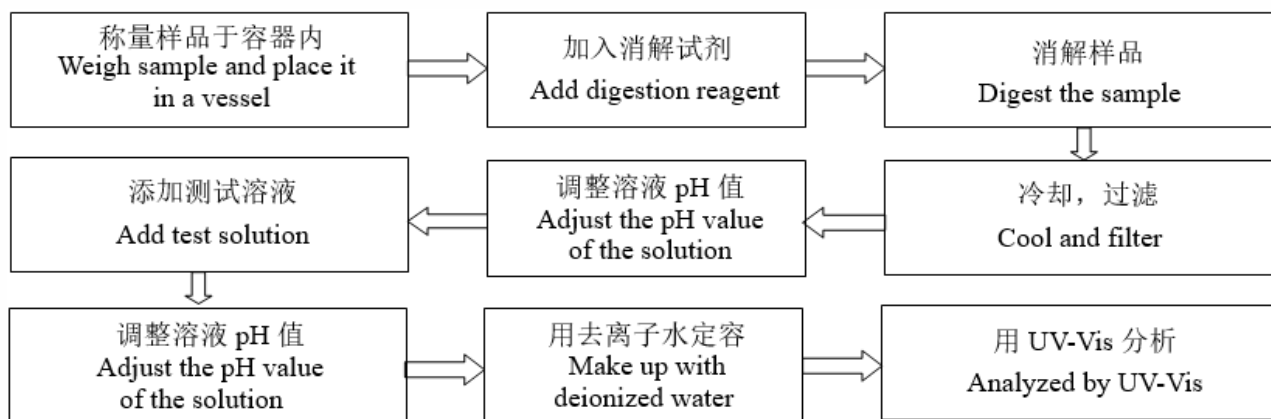


# 检测报告 Test Report

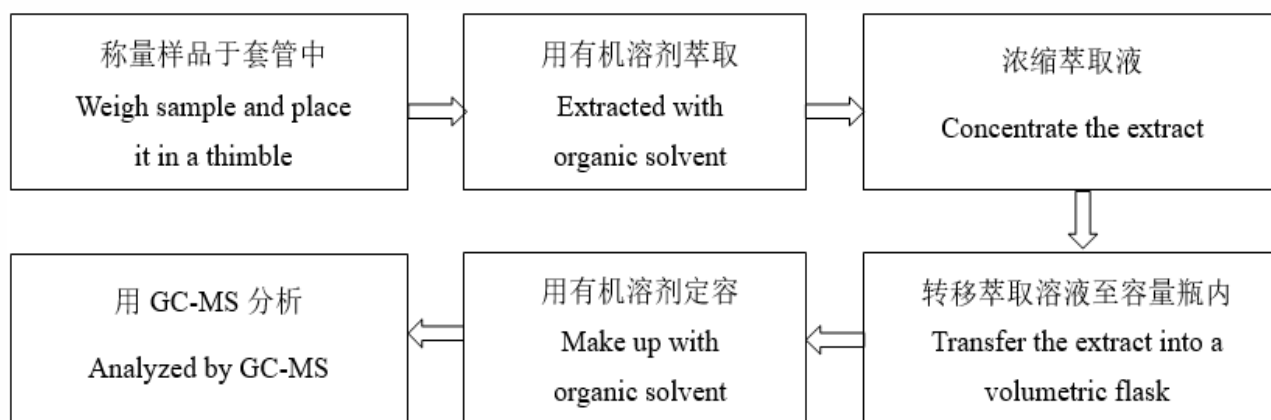
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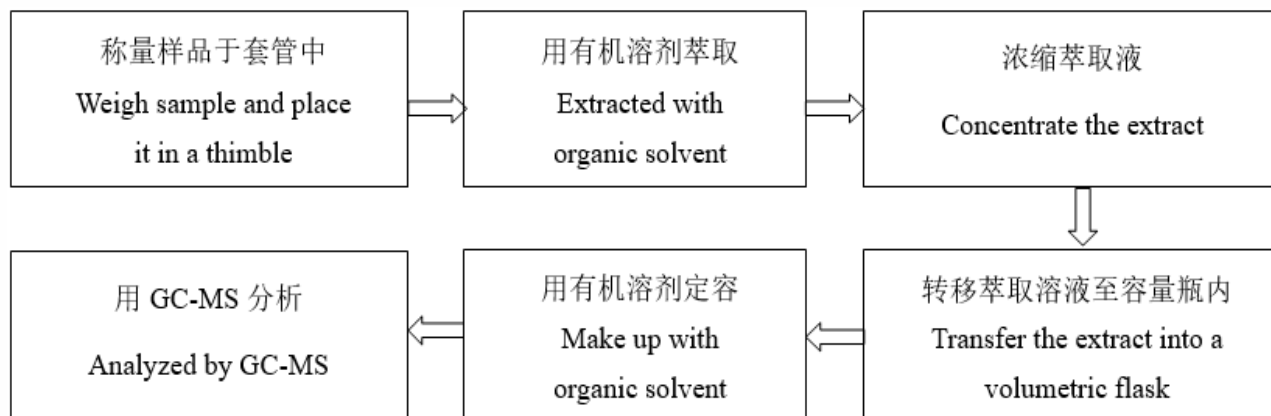
## (2) IEC 62321-7-2:2017



## 4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)



## 5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



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## 样品图片

### Photo(s) of the sample(s)



#### 声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;  
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;  
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;  
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照 ILAC-G8:09/2019 / CNAS-GL015:2022 使用简单接受 (w=0) 二元判定规则进行符合性判定; 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 / CNAS-GL015:2022;
5. 未经 CTI 书面同意, 不得部分复制本报告;  
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6. 如检测报告中的英文内容与中文内容有差异, 以中文为准。  
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

\*\*\* 报告结束 \*\*\*  
\*\*\* End of Report \*\*\*