



No. HP231025009001-1

Date: Oct 27, 2023

Page 1 of 4

Applicant:

Applicant Address:

The following samples were submitted and identified on behalf of the clients as

Sample Name: Rechargeable Li-ion Cell  
 Main test/test model: IMR14500-500mAh  
 Reference(additional) model: IMR14500-300mAh, IMR14500-400mAh, IMR14500-600mAh  
 Sample quantity: 1  
 Sample Received Date: Oct 25, 2023  
 Test Period: Oct 25, 2023 to Oct 27, 2023  
 Test Method: Please refer to next page(s).  
 Test Result: Please refer to next page(s).

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CONCLUSION :

<u>TESTED SAMPLES</u>	<u>TEST ITEM</u>	<u>RESULT</u>
Rechargeable Li-ion Cell	1. Lead, Cadmium & Mercury content - European batteries Regulation (EU) 2023/1542	<b>PASS</b>

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WRITTEN BY :

*Jane*

**Yuan Jing Wen Jane**  
Report writer

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*Hunt*

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Report Reviewer

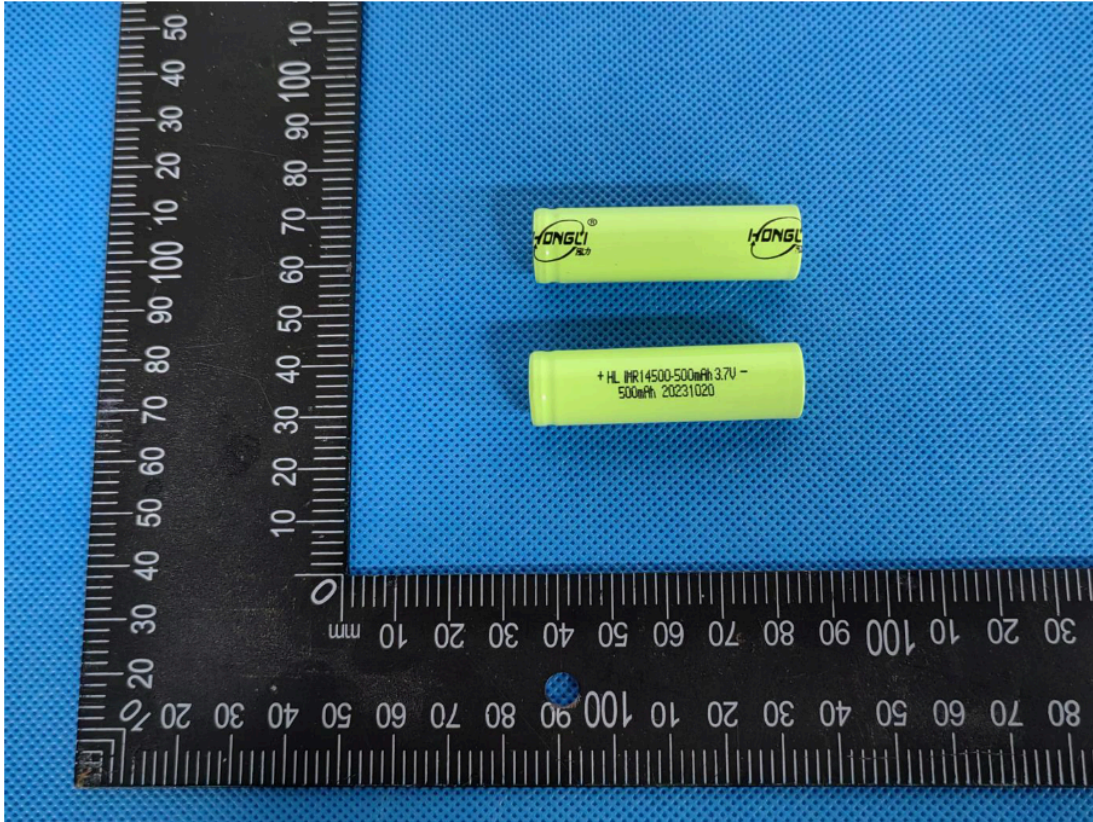
APPROVED BY:

*Tony*

**Tang Xiu Sheng Tony**  
Laboratory manager  
Issue Date: Oct 27, 2023



**Photo of the Submitted Sample**



**Test Result(s):**

Description of Specimen : Rechargeable Li-ion Cell

**1. Lead, Cadmium & Mercury content - European batteries Regulation (EU) 2023/1542**

Test Method: With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, analysis was performed by Inductively coupled plasma emission spectrometer(ICP-OES).

Test Items	Unit	Result	MDL	Limit
Lead (Pb)	%	N.D.	0.0002	Portable battery: 0.01
Mercury (Hg)	%	N.D.	0.0002	0.0005
Cadmium(Cd)	%	N.D.	0.0002	Portable battery: 0.002

**Note:**

1. % = percentage by weight.
2. 0.0001% = 1 mg/kg.
3. MDL = Method Detection Limit.
4. N.D. = Not Detected (< MDL).
5. Battery label requirements:

General information: All batteries are accompanied by a label containing basic information about the battery, including manufacturer information, battery type, chemical composition, other harmful substances other than Lead, Cadmium, Mercury, key raw materials and other 10 items;

Capacity information: Rechargeable portable batteries, LMT batteries, and SLI batteries should be labeled with capacity information, and non-rechargeable portable batteries should also be labeled with the minimum average duration and labeled "non-rechargeable";

Qr code: The battery should be attached to the QR code, for different types of batteries, the QR code contains different information;

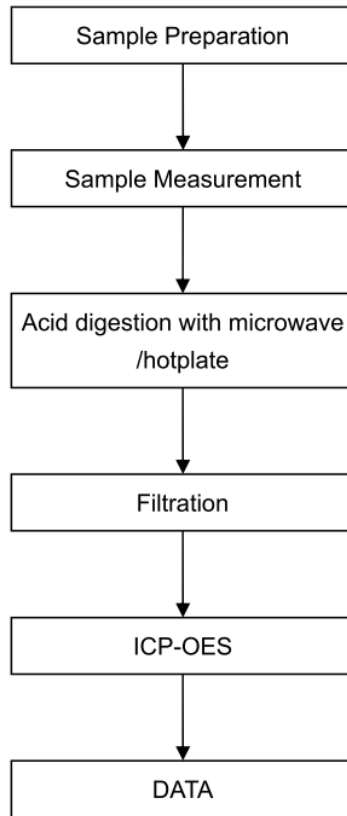
Battery separate collection symbol: garbage can identification, cadmium more than 0.002% or lead more than 0.004% of the battery should be added under the garbage can identification of the corresponding chemical element symbol

CE marking: All batteries shall be marked with CE marking before being placed on the market.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.



**Lead, Cadmium & Mercury Testing Flow Chart**



\*\*\* End of Report \*\*\*