



Test Report



Report No. : MTi230803003-01C1

Date of Issue : August 10, 2023

Client :

Product : Button Battery

Test Type : Commissioned Inspection



Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>





Instructions



1. The report shall not be partially reproduced without the written consent of the Laboratory;
2. The test results of this report are only responsible for the samples submitted;
3. This report is invalid without the seal and signature of the laboratory;
4. This report is invalid if transferred, altered or tampered with in any form without authorization;
5. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.



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Basic Information			
Client			
Client Address			
Manufacturer			
Manufacturer Address			
Sample Information			
Product	Button Battery	Model	LR1130
Serial Model	/	Brand/ Trademark	/
Sample Number	1	Sample Description	/
Testing Information			
Sample Receive Date	August 04, 2023	Sample Source	Customer provided
Test Specification	With reference to EU Battery Directive (2006/66/EC & 2013/56/EU)		
Date of Tests	August 04, 2023 - August 10, 2023		
Test Address	Chemistry lab		
Test Results:	Please refer to next page(s).		
Conclusion:	The submitted sample(s) complied with the Lead(Pb), Cadmium(Cd), Mercury(Hg) content in the submitted sample(s) in accordance with EU Battery Directive (2006/66/EC & 2013/56/EU)		
Compiled:	<i>Tobey Lin</i>	Reviewed:	<i>Sunshing Chen</i>
		Approved:	<i>Pan</i>

Test Method:

Item	Test Method
Lead, Cadmium, Mercury	Refer to IEC 62321-5:2013 and IEC 62321-4:2017, analyzed by ICP-OES.

Sample Description:

Sample Identity	Sample Name	Color and Material
1	Battery	Mix

Test Results:

Item	MDL (mg/kg)	Results (mg/kg)	Required Limit (mg/kg)
		1	
Lead (Pb)	5	N.D.	40*
Cadmium (Cd)	5	N.D.	20
Mercury (Hg)	2	N.D.	5
Conclusion	—	PASS	—

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- 1mg/kg=1ppm=0.0001%
- *: According to 2006/66/EC battery directive if the lead content is more than 40 ppm (40mg/kg), the sample must be marked "Pb".

Remark:

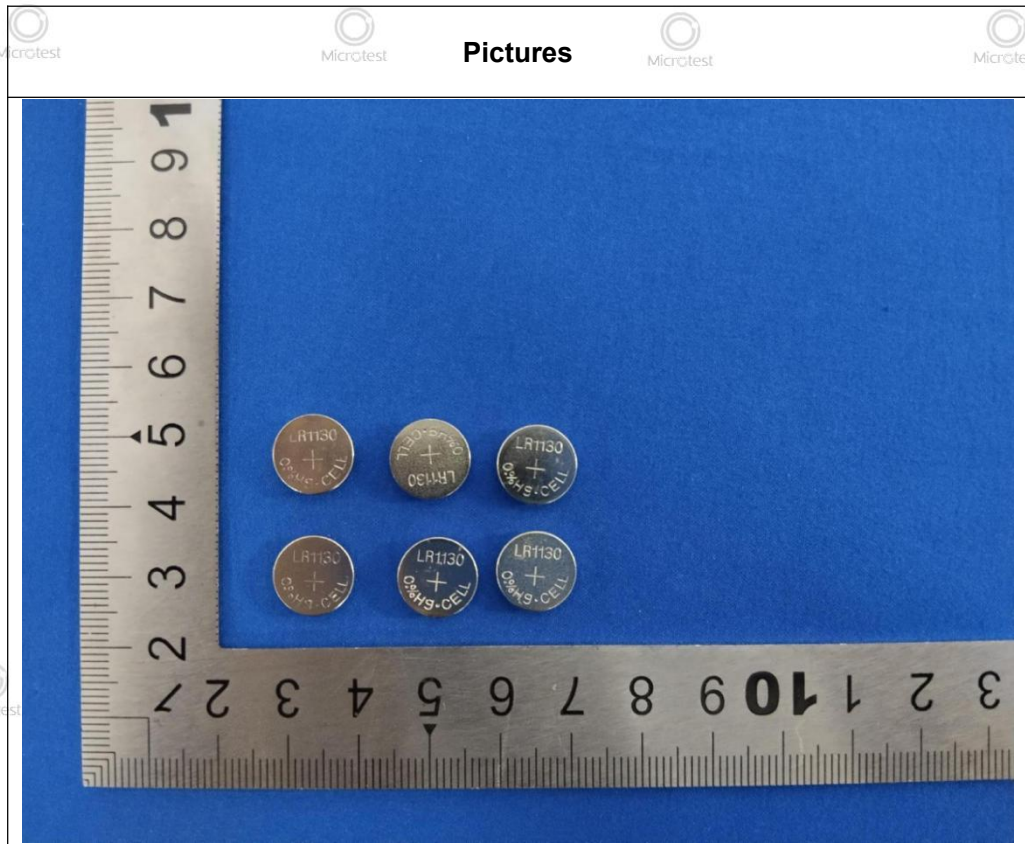
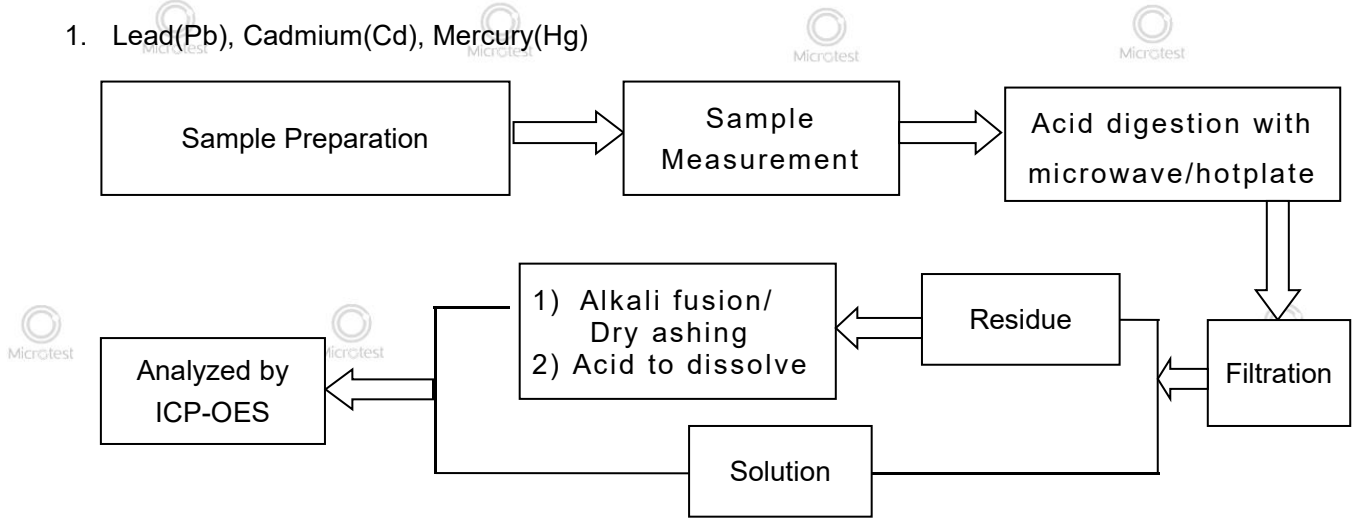
The requirement is following article 4 and 21 of Directive 2006/66/EC and 2013/56/EU.

- According to Directive 2013/56/EU, after 1 October, 2015, button cells shall not contain more than 0.0005% by weight of Mercury.
- According to Directive 2006/66/EC, all batteries, accumulators and battery packs must be appropriately marked with the symbol indicating "separate collection" shown below.



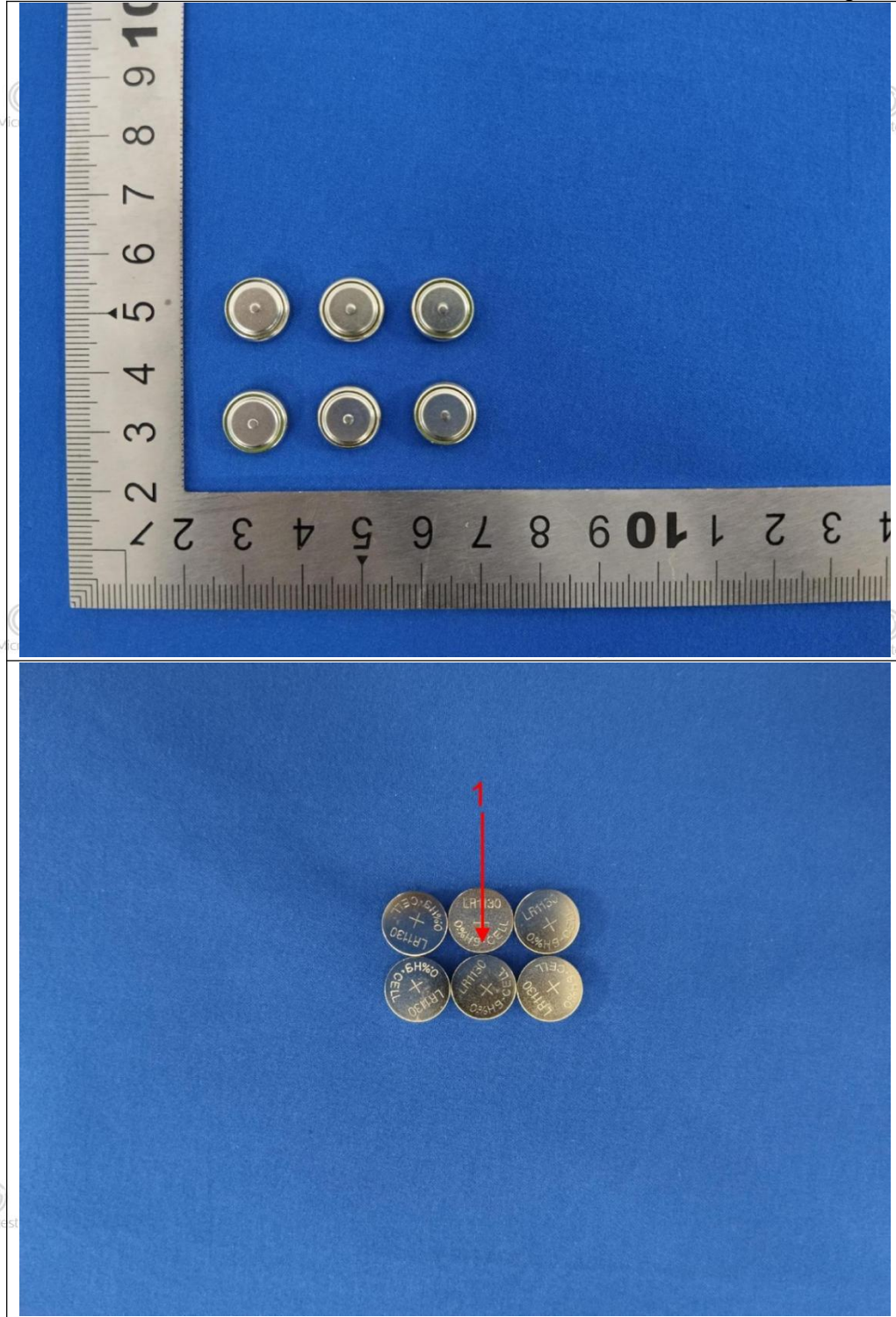
Testing flow chart:

1. Lead(Pb), Cadmium(Cd), Mercury(Hg)



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