



## Test Report

NO.: BQC63Q7B0663907D1

Issued Date: 2022-03-28

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Applicant:

Wuhan Lixing (Torch) Power Sources Co., Ltd.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name:

Li-MnO<sub>2</sub> Coin Battery

Covered Model:

CR2032\CR1216\CR1220\CR1225\CR1616\CR1620\CR1632\CR2016\  
CR2025\CR2060\CR2320\CR2325\CR2330\CR2354\CR2430\CR2450\CR2477\  
CR3032 (brand: KTS、LIXING、NEUTRAL、LISUN、ANSMANN、JYB、UPG、  
tecxsus、kinetik)

Sample Source:

Send Sample

Sample Received Date:

2022-03-17

Test Period:

2022-03-17~2022-03-28

Test Requested:

RoHS Directive 2011/65/EU & (EU)2015/863 Annex II

Test Methods:

- (1) IEC 62321-5 Edition 1.0:2013 method, Lead analysis is performed by AAS
- (2) IEC 62321-5 Edition 1.0:2013 method, Cadmium analysis is performed by AAS
- (3) IEC 62321-4:2013+AMD1:2017 CSV method, Mercury analysis is performed by ICP-OES
- (4) IEC 62321-7-2 Edition 1.0:2017 method, Hexavalent Chromium analysis is performed by UV-Vis
- (5) IEC 62321-6 Edition 1.0:2015 method, PBBs and PBDEs analysis is performed by GC-MS
- (6) IEC 62321-8 Edition 1.0:2017 method, Phthalate analysis is performed by GC-MS

Testing Results:

Please refer to next page(s)

Edited by:

*Wang Mi*

Checked by:

*Zhang Yan*

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Approved by:

*Zhang Yaoqiang*

Issued Date:

2022-03-28

Zhang Yaoqiang

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Test Results (Unit: mg/kg)

Sample Number and Name: B0663907D1 Li-Mno2 Coin Battery

Test Item	MDL	Test Result	RoHS Limit
Lead (Pb)	1	N.D.	1000
Cadmium (Cd)	1	N.D.	100
Mercury (Hg)	1	N.D.	1000
Hexavalent Chromium (Cr <sup>6+</sup> )	8	N.D.	1000
Sum of PBBs	—	N.D.	1000
Bromobiphenyl	5	N.D.	—
Dibromobiphenyl	5	N.D.	—
Tribromobiphenyl	5	N.D.	—
Tetrabromobiphenyl	5	N.D.	—
Pentabromobiphenyl	5	N.D.	—
Hexabromobiphenyl	5	N.D.	—
Heptabromobiphenyl	5	N.D.	—
Octabromobiphenyl	5	N.D.	—
Nonabromobiphenyl	5	N.D.	—
Decabromobiphenyl	5	N.D.	—
Sum of PBDEs	—	N.D.	1000
Bromodiphenyl ether	5	N.D.	—
Dibromodiphenyl ether	5	N.D.	—
Tribromodiphenyl ether	5	N.D.	—
Tetrabromodiphenyl ether	5	N.D.	—
Pentabromodiphenyl ether	5	N.D.	—
Hexabromodiphenyl ether	5	N.D.	—
Heptabromodiphenyl ether	5	N.D.	—
Octabromodiphenyl ether	5	N.D.	—
Nonabromodiphenyl ether	5	N.D.	—
Decabromodiphenyl ether	5	N.D.	—

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Test Results (Unit: mg/kg)

Test Item	CAS Number	MDL	Test Result	RoHS Limit
DEHP	117-81-7	30	N.D.	1000
DBP	84-74-2	30	N.D.	1000
BBP	85-68-7	30	N.D.	1000
DIBP	84-69-5	30	N.D.	1000

- Note:
- (1) mg/kg = ppm
  - (2) "—" = Does not stipulate
  - (3) N.D. = Not Detected (<MDL)
  - (4) MDL = Method Detection Limit
  - (5) The most allowable limit value reference to RoHS Directive 2011/65/EU & (EU)2015/863 Annex II
  - (6) According to the applicant's statement, Covered Model is of same materials.

Sample No. & Photo:



Pony authenticate the photo on original report only  
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## Test Report

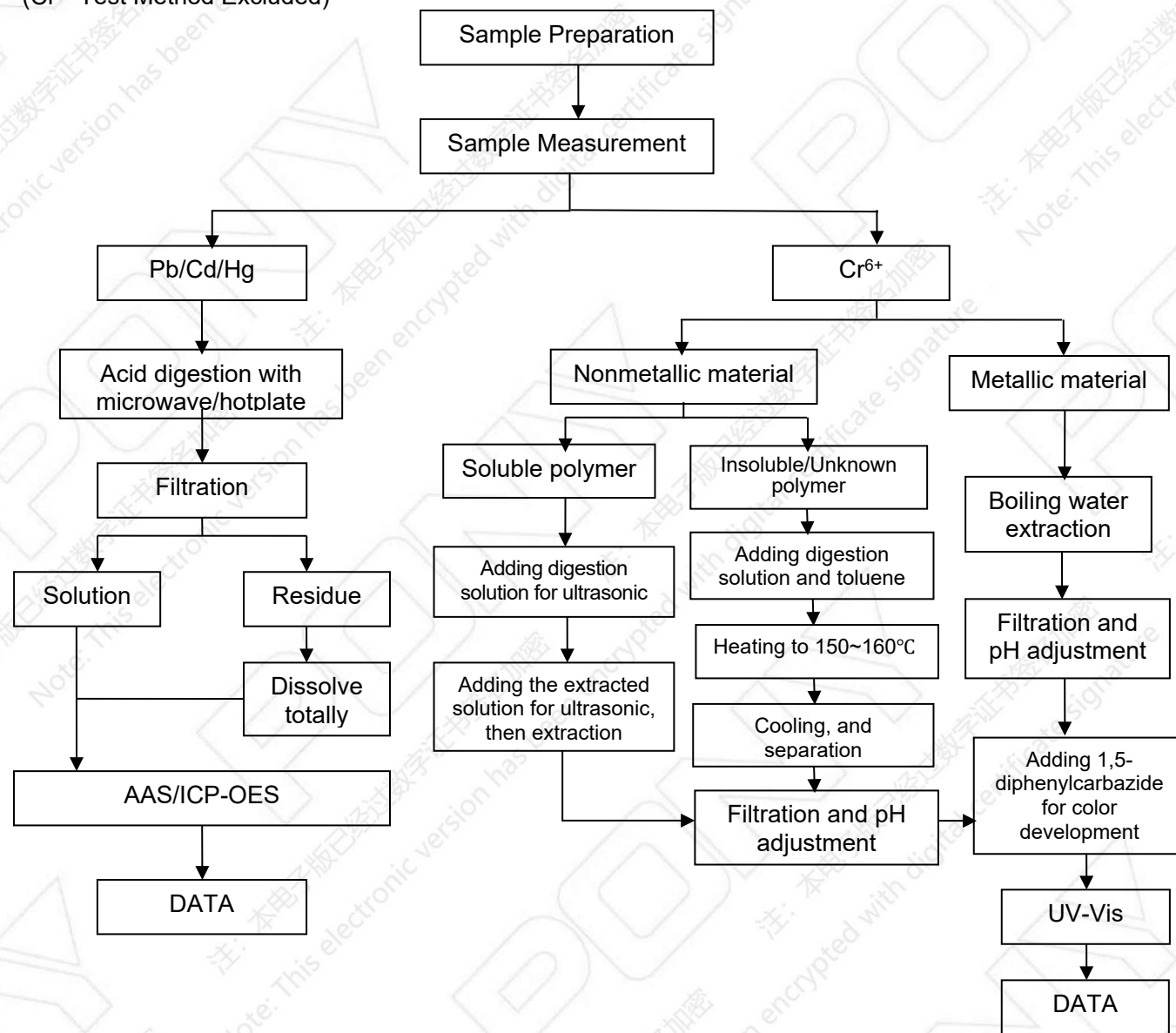
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### Measurement Flow-chart

These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart.  
(Cr<sup>6+</sup> Test Method Excluded)



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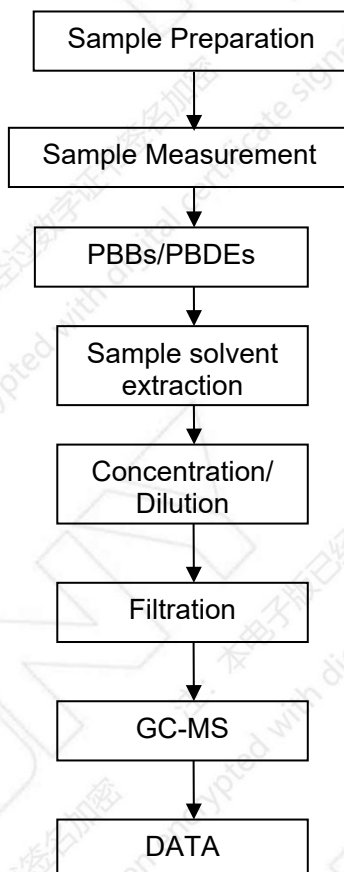
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### Measurement Flow-chart



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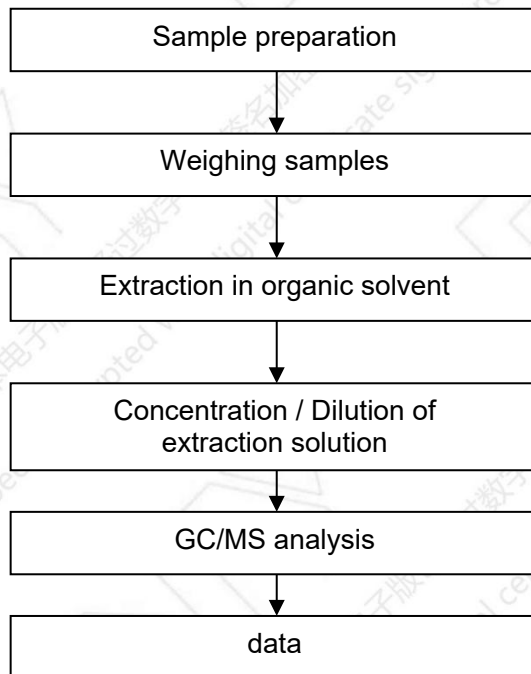
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### Phthalate Flow Chart



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