



Test Report

NO.: BPCXKLQK01969544a Issued Date: 2021-03-31

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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: Lithium subcolumn

Covered Model: ER14250\ER1860\ER2450\ER14335\ER14505\ER17335\ER18505\ER34615\
ER26500\ER14335M\ER14505M\ER17335M\ER18505M\ER34615M\ER26500M
(brand:KTS、LIXING、NEUTRAL、LISUN)

Sample Source: Send Sample

Sample Received Date: 2021-03-19

Testing Period: 2021-03-19~2021-03-29

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
- IEC62321-7-1Edition1.0:2015 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

Test Result: Please refer to next page(s)

Approved by:



微信扫一扫，使用小程序



小程序扫一扫，在线验证

Code: znahry8ap

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Test Result (Unit: mg/kg)

Sample Number and Name: K01969544 Lithium subcolumn

Sample No.: K01969544-1

Testing part: positive pole

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 ⁶⁺)	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 Result (Unit: mg/kg)

Sample No.: K01969544-2

Testing part: diaphragm

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 ⁶⁺)	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)

Sample No.: K01969544-1

Testing part: positive pole

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

Sample No.: K01969544-2

Testing part: diaphragm

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

Test Results (Unit: mg/kg)

Sample No.: K01969544-3

Testing part: battery case

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 ⁶⁺)	See Note (6)	Negative	—

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) Boiling water extraction test:
 $<0.10 \mu\text{g}/\text{cm}^2$ expressed as "negative" results, indicates without hexavalent chromium in the plating
 $0.10 \mu\text{g}/\text{cm}^2 \sim 0.13 \mu\text{g}/\text{cm}^2$ expressed as "not confirmative", indicates that it can not be confirmative for the presence of hexavalent chromium in the plating, further test is needed.
 $>0.13 \mu\text{g}/\text{cm}^2$ expressed as "positive", indicates that hexavalent chromium is detected in the plating.
- (7) This test report is to replace the test report No. BPCXLQK01969544 (Issued by 2021-03-29)
The No. BPCXLQK01969544 test report is invalid and of no legal effect. All related information should be referred to the new test report.2021-03-31

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Sample No. &Photo:



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Measurement Flow-chart

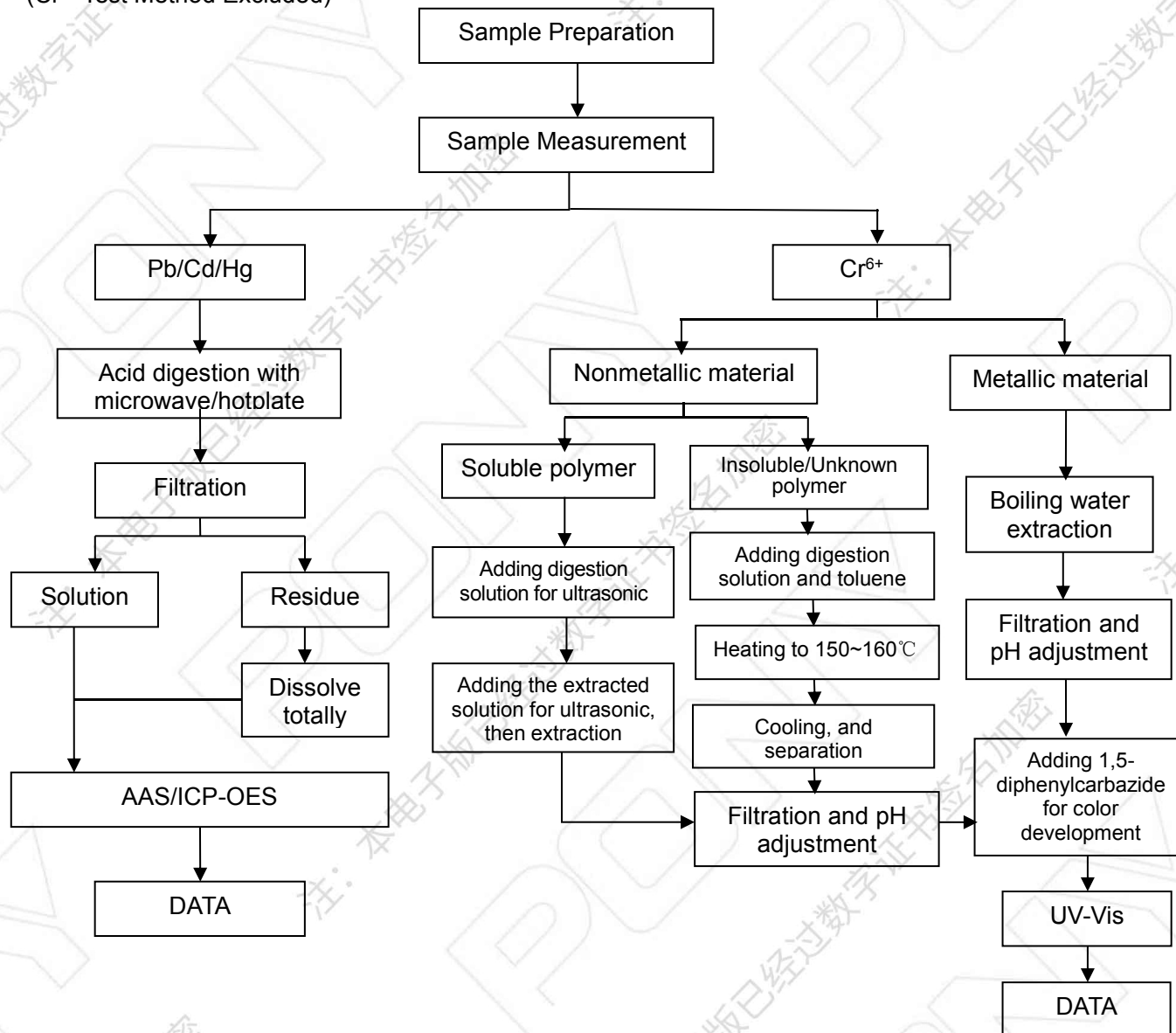
Tested by: Yao Zhongqi

Checked by: Tian Lv

Person in charge of the lab: Zhang Yaoqiang

These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart.

(Cr⁶⁺ Test Method Excluded)



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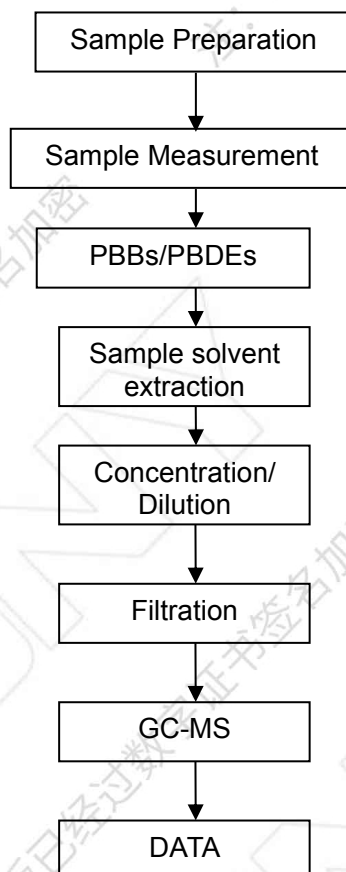
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Measurement Flow-chart

Tested by: Li Chao

Checked by: Tian Lv

Person in charge of the lab: Zhang Yaoqiang



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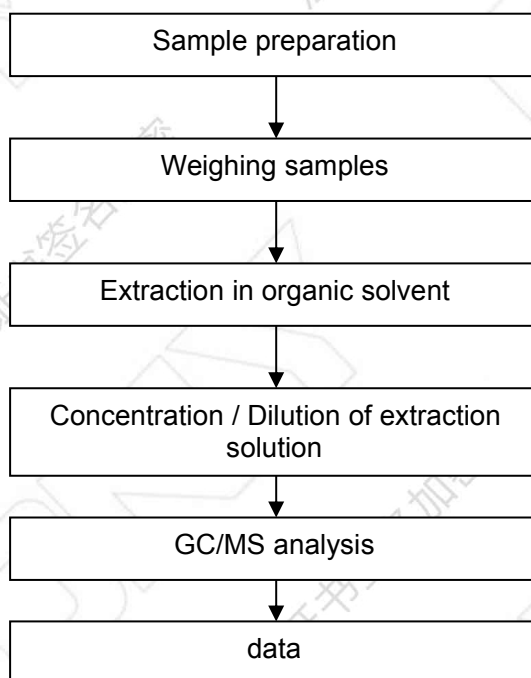
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Phthalate Flow Chart

Tested by: Yang Dan

Checked by: Tian Lv

Person in charge of the lab: Zhang Yaoqiang



End of Report