

No. CANEC1816555305

Date: 20 Aug 2018

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TITANIUM INNOVATIONS

50SCHOOL HOUSE RD, UNIT2, OLD SAYBROOK, CT 06475 USA

The following sample(s) was/were submitted and identified on behalf of the clients as : Lithium Manganese Dioxiode Battery

| SGS Job No. :             | CP18-044466 - SZ  |
|---------------------------|---|
| Model No. :               | CR123A  |
| Date of Sample Received : | 13 Aug 2018   |
| Testing Period :          | 13 Aug 2018 - 20 Aug 2018   |
| Test Requested :          | Selected test(s) as requested by client.  |
| Test Method :             | Please refer to next page(s).   |
| Test Results :            | Please refer to next page(s).   |
| Conclusion :              | The submitted battery sample does not exceed the limit mentioned in Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU. |

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry W

Merry Lv Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description                          |
|--------------|------------------|--------------------------------------|
| SN1          | CAN18-165553.003 | "Lithium Manganese Dioxiode Battery" |

Remarks :

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

#### Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU- Heavy Metals Content in **Batteries and Accumulators**

Test Method : Acid digestion method, analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> |
|---------------------|--------------|-------------|------------|------------|
| Cadmium (Cd)        | 0.0020       | %(w/w)      | 0.0010     | ND         |
| Lead (Pb)           | -            | %(w/w)      | 0.0010     | ND         |
| Mercury (Hg)        | 0.0005       | %(w/w)      | 0.0001     | ND         |

Notes :

(1) Results shown are of total weight of the battery sample.

(2) According to the directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU, all types of battery shall include the chemical symbol Lead when containing more than 0.004% of Pb.



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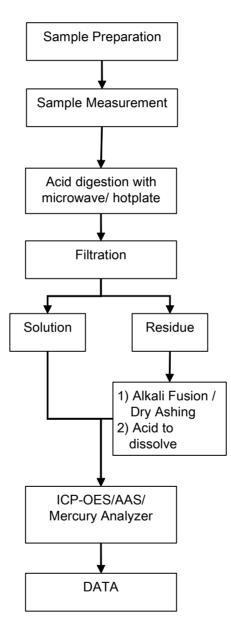
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### **ATTACHMENTS**

#### **Battery Testing Flow Chart**

- 1) Name of the person who made testing: Hogan Lv
- 2) Name of the person in charge of testing: Bella Wang





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Sample photo:



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