# LITHIUM CELLS OR BATTERIES TEST SUMMARY

IN ACCORDANCE WITH SUB-SECTION 38.3
OF MANUAL OF TESTS AND CRITERIA

## TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Name of cell, battery or product manufacturer, as applicable:</th>
<th>Cell, battery or product manufacturer's contact information to include address, phone number, email address and website for more information:</th>
</tr>
</thead>
</table>
| ☑ Cell ☐ Battery ☐ Product | Renata SA  
Kreuzenstrasse 30  
4452 Itingen  
Switzerland  
+41 61 975 75 75 / logistics@renata.com  
www.renata.com |

<table>
<thead>
<tr>
<th>Item Number/Name:</th>
<th>CR2450N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item Description:</td>
<td>Primary Lithium Manganese Dioxide Cell (Li+MnO2 → LiMnO2)</td>
</tr>
<tr>
<td>Nominal Voltage:</td>
<td>3V</td>
</tr>
</tbody>
</table>

| Name of the test laboratory to include address, phone number, email address and website for more information: | A unique test report identification number:  
1117030305  
Date of the test report:  
20-APR-2017 |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Shanghai Research Institute of Chemical Industry  
Testing Centre  
Room 101, Building 2  
No.345 East Yunling Road  
200062 Shanghai  
China  
+86-21-31015216 / xutingmsds@gmail.com  
http://www.ghs.cn | List of tests conducted and results (i.e., pass/fail):  
Test T.1: Altitude Simulation | Passed  
Test T.2: Thermal Test | Passed  
Test T.3: Vibration | Passed  
Test T.4: Shock | Passed  
Test T.5: External short circuit | Passed  
Test T.6: Impact/Crush | Passed  
Test T.7: Overcharge | Not applicable  
Test T.8: Forced discharge | Passed |

<table>
<thead>
<tr>
<th>Description of cell or battery to include at a minimum: Lithium ion or Lithium metal cell or battery; Mass; Watt-hour rating, or lithium content; Physical description of the cell/battery:</th>
<th>Testing additional comments:</th>
</tr>
</thead>
</table>
| Cell / battery Type: Lithium metal  
Cell or Battery: Cell  
Lithium contain: 0.16 Grams  
Battery Weight: 5.9 Grams | |

<table>
<thead>
<tr>
<th>Reference to assembled battery testing requirements, if applicable (i.e., 38.3.3(1) and 38.3.3.(g)):</th>
<th>Reference to the revised edition of the Manual of Tests and Criteria used and to amendments thereto, if any:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td>ST/SG/AC. 10/11/Rev.5/Amd.1&amp;Amd.2 38.3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN Classification: UN 3090</th>
<th>Proper Shipping Name: Lithium metal batteries</th>
</tr>
</thead>
</table>

| Signature with name and title of signatory as an indication of the validity of information provided: | Date document was generated:  
25-NOV-2019 |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Jürgen Ruther  
Head of Marketing & Sales  
Member of the Management Board | Important! The above signatory / signatories affirm that this document is a true and correct summary of the original individual tests and test data. The original test data is confidential information available to competent State Authorities with valid identification and only upon their formal request. Disclosure of the original test data to any other entity upon its request will be considered by Renata SA and, should Renata SA consider this request with merit, may be subject to the prior execution of a nondisclosure agreement. |