# 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 |

| Item Number/Name: | CR2032 MFR |
| Item Description: | Primary Lithium Manganese Dioxide Cell  
(Li+MnO2 → LiMnO2) |
| Nominal Voltage: | 3V |

| Name of the test laboratory to include address, phone number, email address and website for more information: | A unique test report identification number:  
1121110159  
Date of the test report:  
15-DEC-2021 |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Shanghai Research Institute of Chemical Industry Testing Centre  
No.345 East Yunling Road  
200062 Shanghai  
China  
+86-21-31765555 / battery@ghs.cn  
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:  
0.072 Grams  
Battery Weight:  
2.8 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.7 38.3</td>
</tr>
</tbody>
</table>

| For air transport only:  
Does the cell or battery comply with the 30% State of Charge? | Not Applicable |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

## PRODUCT CLASSIFICATION FOR TRANSPORT (According to UN - DGP)

| UN Classification:  
UN 3090 | Proper Shipping Name:  
Lithium metal batteries |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

| Signature with name and title of signatory as an indication of the validity of information provided:  
Jürgen Ruther  
Head of Marketing & Sales  
Member of the Management Board | This document remains valid as long as no changes, modifications, or additions are made to the model(s) described in this document. |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Date document was generated:  
04-FEB-2022 | The model(s) has (have) been classified according to the applicable transport regulations and the UN Manual of Tests and Criteria as of the date of the certification. The model(s) must be packaged, labeled, and documented according to country and other international regulations for transportation. |

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 is with merit, may be subject to the prior execution of a nondisclosure agreement.