Genomic RNA from Human Respiratory Syncytial Virus, B1
Catalog No. NR-48831

Product Description:
Genomic RNA was isolated from a preparation of cell lysate and supernatant from *Cercopithecus aethiops* kidney epithelial cells (Vero; ATCC® CCL-81™) infected with human respiratory syncytial virus (RSV), B1 (depositor lot 0671) using QIAamp® Viral RNA Mini Kit (Qiagen® 52904). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA.

Lot: 70041179  
Manufacturing Date: 29OCT2021

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPECIFICATIONS</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genotypic Analysis</td>
<td>Sequencing of species-specific region (~ 1020 nucleotides)</td>
<td>≥ 98% identity with human RSV, B1 (GenBank: AF013254) 99.9% identity with human RSV, B1 (GenBank: AF013254)</td>
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<tr>
<td>Functional Activity by RT-PCR Amplification¹</td>
<td>Glycoprotein gene</td>
<td>~ 950 base pair amplicon ~ 950 base pair amplicon (Figure 1)</td>
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<tr>
<td>Estimated Concentration (post-dilution) by Qubit® Measurement (Viral, Cellular and Carrier)²</td>
<td>Report results</td>
<td>6.5 ng per 100 μL (0.07 ng per μL)</td>
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<tr>
<td>Estimated Amount per Vial²</td>
<td>Report results</td>
<td>6.5 ng</td>
</tr>
<tr>
<td>Virus Inactivation</td>
<td>10% of total yield inoculated on Vero cells and evaluated for cytopathic effect and by FA stain after serial passage³</td>
<td>No viable virus detected No viable virus detected</td>
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</tbody>
</table>

¹Amplified using iTaq™ Universal SYBR Green One-step Kit (Bio-Rad® 172-5151) with 5 μL of NR-44831 in a 50 μL reaction
²Measurement is determined prior to dilution due to the limit of detection of the quantification method
³Use of the QIAamp® Viral RNA Mini Kit has been demonstrated to consistently inactivate 100% of RSV as shown by the absence of cytopathic effect (CPE) and IFA after plating the entire extract on virus-susceptible cells for two passages.

Figure 1: Functional Activity of NR-48831 by RT-PCR Amplification of Glycoprotein Gene

Lane 1: Invitrogen™ TrackIt™ 1 Kb Plus DNA Ladder  
Lane 2: PCR product from 1 μL of NR-48831

/Heather Couch/  
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Program Manager or designee, ATCC Federal Solutions

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