Product Name: NEBuilder® HiFi DNA Assembly Master Mix
Catalog Number: E2621L
Packaging Lot Number: 10129003
Expiration Date: 01/2023
Storage Temperature: -20°C
Specification Version: PS-E2621S/X/L v2.0

**NEBuilder® HiFi DNA Assembly Master Mix Component List**

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>N2611AVIAL</td>
<td>NEBuilder® Positive Control</td>
<td>10111284</td>
<td>Pass</td>
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<tr>
<td>M5520AAVIAL</td>
<td>NEBuilder® High-Fidelity Master Mix</td>
<td>10111280</td>
<td>Pass</td>
</tr>
</tbody>
</table>

**Functional Testing (NEBuilder® HiFi DNA Assembly)**

10 µl of 2X NEBuilder® HiFi DNA Assembly Master Mix was incubated with 0.05 pmol each of 6 DNA fragments (4 fragments of 1,000 bp, one fragment of 1,152 bp with 80 bp overlap, and a vector of 3,373 bp with a 20 bp overlap) in a final volume of 20 µl at 50°C for 60 minutes. NEB® 5-alpha Competent E. coli (High Efficiency) were transformed with 2 µl of the assembled products. Successfully assembled fragments produce an intact lacZ gene in the pACYC184 vector, and yield blue colonies on an IPTG/Xgal/Chloramphenicol plate when incubated overnight at 37°C after transformation. Greater than 100 blue colonies were observed when 1/10 of the outgrowth (500 µl) was spread on a plate.

*Individual Product Component Note*

Standard Quality Control Tests are performed for each component included in NEBuilder® HiFi DNA Assembly Master Mix and meet the designated specifications.

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.
Ana Egana  
Production Scientist  
16 Nov 2021

Michael Tonello  
Packaging Quality Control Inspector  
16 Nov 2021