

New England Biolabs Certificate of Analysis

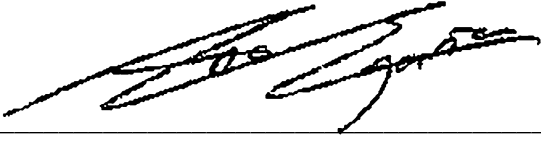
Product Name: *NEBuilder[®] HiFi DNA Assembly Master Mix*
 Catalog Number: *E2621S*
 Packaging Lot Number: *10160308*
 Expiration Date: *08/2023*
 Storage Temperature: *-20°C*
 Specification Version: *PS-E2621S/X/L v2.0*

NEBuilder [®] HiFi DNA Assembly Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2611AVIAL	NEBuilder [®] Positive Control	10157948	Pass
M5520AVIAL	NEBuilder [®] High-Fidelity Master Mix	10132142	Pass

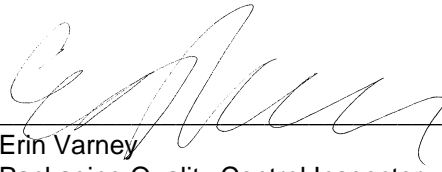
Assay Name/Specification	Lot # 10160308
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEBuilder[®] HiFi DNA Assembly Master Mix and meet the designated specifications.</p> <p>Functional Testing (NEBuilder[®] HiFi DNA Assembly) 10 µl 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.</p>	<p>Pass</p> <p>Pass</p>

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

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Ana Egana
Production Scientist
26 Aug 2022



Erin Varney
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26 Aug 2022