

New England Biolabs Certificate of Analysis

Product Name: NEBuilder® HiFi DNA Assembly Master Mix
 Catalog Number: E2621L
 Packaging Lot Number: 10238683
 Expiration Date: 10/2025
 Storage Temperature: -20°C
 Specification Version: PS-E2621S/X/L v3.0

NEBuilder® HiFi DNA Assembly Master Mix Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N2611AVIAL	NEBuilder® Positive Control	10233980	Pass
M5520AAVIAL	NEBuilder® High-Fidelity Master Mix	10238676	Pass

Assay Name/Specification	Lot # 10238683
<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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Lindsey Spiegelman
Production Scientist
01 May 2024



Michael Tonello
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17 May 2024