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240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## New England Biolabs Certificate of Analysis

Product Name:	NEBuilder® HiFi DNA Assembly Master Mix
Catalog Number:	E2621X
Packaging Lot Number:	10225706
Expiration Date:	11/2024
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
E2621L	NEBuilder® HiFi DNA Assembly Master Mix	10222732	Pass

Assay Name/Specification	Lot # 10225706
* 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.	Pass
<b>Functional Testing (NEBuilder® HiFi DNA Assembly)</b> 10 $\mu$ l 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 $\mu$ l at 50°C for 60 minutes. NEB® 5-alpha Competent E. coli (High Efficiency) were transformed with 2 $\mu$ l 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 $\mu$ l) was spread on a plate.	Pass

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.





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Ana Egana Production Scientist 27 Dec 2023

Michae 7110

Michael Tonello Packaging Quality Control Inspector 27 Dec 2023

