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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: | E2621S |
| Packaging Lot Number: | 10132813 |
| Expiration Date: | 01/2023 |
| 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 | 10111284 | Pass |
| M5520AVIAL | NEBuilder® High-Fidelity Master Mix | 10111279 | Pass |

| Assay Name/Specification | Lot # 10132813 |
|--|----------------|
| * 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 |
| 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. | 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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