

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 #:	E2621S/X/L
Kit Components:	NEBuilder® HiFi DNA Assembly Master Mix (M5520) NEBuilder® Positive Control (N2611)
Lot #:	0141802
Assay Date:	02/2018
Expiration Date:	02/2019
Storage Temp:	-20°C
Specification Version:	PS-E2621S/X/L v1.0
Effective Date:	13 Feb 2018

Assay Name/Specification (minimum release criteria)	Lot #0141802
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 <i>E. coli</i> (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
* 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.	

otunon

Authorized by Derek Robinson 13 Feb 2018



Carty Shea

Inspected by Cathy Shea 23 Feb 2018