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New England Biolabs Certificate of Analysis

Product Name:	NEBuilder® HiFi DNA Assembly Cloning Kit
Catalog Number:	E5520S
Packaging Lot Number:	10070567
Expiration Date:	03/2021
Storage Temperature:	Multi-temperature*
Specification Version:	PS-E5520S v2.0

* This product contains components with different storage temperature requirements. Please reference the applicable product specification document(s) on the Quality and Safety tab located on the product page of www.neb.com.

NEBuilder® HiFi DNA Assembly Cloning Kit Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3041AVIAL	pUC19 Vector	10064269	Pass	
N2611AVIAL	NEBuilder® Positive Control	10058495	Pass	
M5520AVIAL	NEBuilder® High-Fidelity Master Mix	10067934	Pass	
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10063637	Pass	
B9020SVIAL	SOC Outgrowth Medium	10062387	Pass	

Assay Name/Specification	Lot # 10070567
Functional Testing (NEBuilder® HiFi DNA Assembly) 10 μ l of 2X NEBuilder® HiFi DNA Assembly Cloning Kit 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 μ l at 50°C for 60 minutes. NEB® 5-alpha Competent E. coli (High Efficiency) were transformed with 2 μ 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 μ l) 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 Cloning Kit and meet the designated specifications.	Pass

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





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Lixin An Production Scientist 10 Jan 2020

Nick Privitera Packaging Quality Control Inspector 26 Mar 2020

