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New England Biolabs Certificate of Analysis

Product Name: Gibson Assembly® Cloning Kit

Catalog Number: E5510S

Concentration: 2 X Concentrate

Packaging Lot Number: 10236679 Expiration Date: 02/2025

Storage Temperature: Multi-temperature*
Specification Version: PS-E5510S 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.

Gibson Assembly® Cloning Kit Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N3041AVIAL	pUC19 Vector	10226553	Pass	
N2611AVIAL	NEBuilder® Positive Control	10212946	Pass	
M5510AVIAL	Gibson Assembly® Master Mix	10229799	Pass	
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10206854	Pass	
B9020SVIAL	SOC Outgrowth Medium	10202695	Pass	

Assay Name/Specification	Lot # 10236679
* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Gibson Assembly® Cloning Kit and meet the designated specifications.	Pass
Functional Testing (Gibson Assembly) A 20 μl reaction containing 10 μl of 2X Gibson Assembly Master Mix and six 0.05 pmol fragments of pUC19 (five 400 bp fragments and one 2,780 bp fragment, each with a 40 bp overlap) is incubated at 50°C for 60 minutes. Transformation of NEB 5-alpha competent E. coli cells (NEB #C2987) with 2 μl of the master mix/fragment mixture yields greater than 100 white colonies on an ampicillin plate with IPTG/X-Gal after overnight incubation at 37°C.	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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Nick Privitera

Packaging Quality Control Inspector

28 Mar 2024

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