

New England Biolabs Certificate of Analysis

Product Name: Gibson Assembly® Cloning Kit
Catalog Number: E5510S
Concentration: 2 X Concentrate
Packaging Lot Number: 10263624
Expiration Date: 07/2025
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	10250730	Pass
N2611AVIAL	NEBuilder® Positive Control	10250113	Pass
M5510AVIAL	Gibson Assembly® Master Mix	10245968	Pass
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10238359	Pass
B9020SVIAL	SOC Outgrowth Medium	10236140	Pass

Assay Name/Specification	Lot # 10263624
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in Gibson Assembly® Cloning Kit and meet the designated specifications.</p>	Pass
<p>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.</p>	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.



Lindsey Spiegelman
Production Scientist
24 Jul 2024



Nick Privitera
Packaging Quality Control Inspector
08 Nov 2024