NEW ENGLAND BIOLABS®

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New England Biolabs
Certificate of Analysis

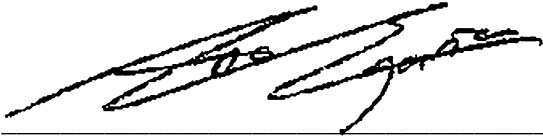|	
Product Name:	*Gibson Assembly® Cloning Kit*
Catalog Number:	*E5510S*
Concentration:	*2 X Concentrate*
Packaging Lot Number:	*10241698*
Expiration Date:	*02/2025*
Storage Temperature:	*Multi-temperature**
Specification Version:	*PS-E5510S v2.0*

* 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.

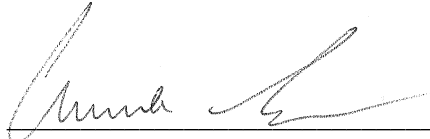| Gibson Assembly® Cloning Kit Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
N3041AVIAL	pUC19 Vector	10236883	**Pass**
N2611AVIAL	NEBuilder® Positive Control	10233980	**Pass**
M5510AVIAL	Gibson Assembly® Master Mix	10229799	**Pass**
C2987HVIAL	NEB® 5-alpha Competent E. coli (High Efficiency)	10214243	**Pass**
B9020SVIAL	SOC Outgrowth Medium	10222583	**Pass**

Assay Name/Specification	Lot # 10241698
* 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.

nqa. ISO 9001 Registered Quality Management
nqa. ISO 13485 Registered Medical Devices
nqa. ISO 14001 Registered Environmental Management

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