

New England Biolabs Certificate of Analysis

Product Name: *StickTogether™ DNA Ligase Buffer*
Catalog Number: *B0535S*
Concentration: *2 X Concentrate*
Packaging Lot Number: *10114677*
Expiration Date: *07/2024*
Storage Temperature: *-20°C*
Specification Version: *PS-B0535S v1.0*
Composition (1X): *66 mM Tris-HCl, 10 mM MgCl₂, 1 mM DTT, 1 mM ATP, 7.5 % PEG 6000, (pH 7.6 @ 25°C)*

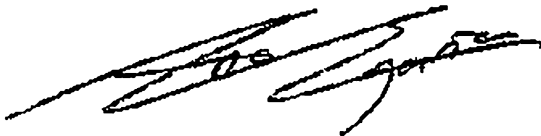
StickTogether™ DNA Ligase Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0535AVIAL	StickTogether™ DNA Ligase Buffer	10113004	Pass

Assay Name/Specification	Lot # 10114677
RNase Activity (Buffer) A 10 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 40 ng of a 300 base single-stranded RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by fluorescent detection.	Pass
pH (buffers/solutions) The pH of 2X StickTogether™ DNA Ligase Buffer is between pH 7.5 and 7.7 at 25°C.	Pass
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 1 µg of PhiX174-HaeIII DNA incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Functional Testing (DNA Ligase Buffer) A 20 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 50 ng of Lambda-HindIII DNA and 2,000 units of T4 DNA Ligase incubated for 5 minutes at 25°C results in approximately >95% ligation of the DNA fragments as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X StickTogether™ DNA Ligase Buffer containing 1 µg of	Pass

Assay Name/Specification	Lot # 10114677
supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	

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.



Ana Egana
Production Scientist
12 Jul 2021



Michael Tonello
Packaging Quality Control Inspector
12 Jul 2021