

New England Biolabs Certificate of Analysis


Product Name: *StickTogether™ DNA Ligase Buffer*
Catalog Number: *B0535S*
Concentration: *2 X Concentrate*
Packaging Lot Number: *10069512*
Expiration Date: *08/2022*
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 | 10053903 | Pass |

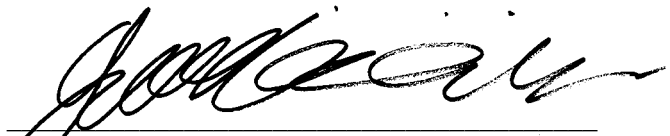
| Assay Name/Specification | Lot # 10069512 |
|--|----------------|
| RNase Activity (Buffer) A 10 µl reaction in StickTogether™ DNA Ligase Buffer containing 40 ng of a 300 base single-stranded RNA is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined 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 # 10069512 |
|---|----------------|
| 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.



Mary Lorenzen
Production Scientist
09 Sep 2019



Jay Minichiello
Packaging Quality Control Inspector
06 Mar 2020