

New England Biolabs Certificate of Analysis

Product Name: *Taq DNA Ligase Reaction Buffer*
Catalog Number: *B0208S*
Concentration: *10 X Concentrate*
Packaging Lot Number: *10166975*
Expiration Date: *10/2025*
Storage Temperature: *-20°C*
Specification Version: *PS-B0208S v2.0*
Composition (1X): *20 mM Tris-HCl, 25 mM Potassium Acetate, 10 mM Magnesium Acetate, 1 mM NAD⁺, 10 mM DTT, 0.1% Triton X-100, (pH 7.3 @ 25°C)*

Taq DNA Ligase Reaction Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0208SVIAL	Taq DNA Ligase Reaction Buffer	10154088	Pass

Assay Name/Specification	Lot # 10166975
Functional Testing (DNA Ligase Buffer) A 50 µl reaction in 1X Taq DNA Ligase Reaction Buffer containing 1 µg of BstEII digested Lambda DNA and 1 unit of Taq DNA Ligase incubated for 15 minutes at 45°C results in approximately 50% ligation of the cohesive ends of the DNA fragments as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X Taq DNA Ligase Reaction Buffer containing 1 µg of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
RNase Activity (Buffer) A 10 µl reaction in 1X Taq DNA Ligase Reaction Buffer containing 40 ng of a 300 base single-stranded RNA is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by polyacrylamide gel electrophoresis.	Pass
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X Taq DNA Ligase Reaction Buffer containing 1 µg of HaeIII digested PhiX174 RF I 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

This product has been tested and shown to be in compliance with all specifications.

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Production Scientist
01 Nov 2022



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01 Nov 2022