NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Taq DNA Ligase Reaction Buffer*
Catalog Number:	*B0208S*
Concentration:	*10 X Concentrate*
Lot Number:	*10009389*
Expiration Date:	*03/2021*
Storage Temperature:	*-20°C*
Specification Version:	*PS-B0208S v1.0*
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 7.6 @ 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	0011803	**Pass**

Assay Name/Specification	**Lot # 10009389**
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 45ºC results in approximately 50% ligation of the cohesive ends of the DNA fragments as determined by agarose 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 37ºC results in a DNA pattern free of detectable nuclease degradation 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 37ºC. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by polyacrylamide 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**

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

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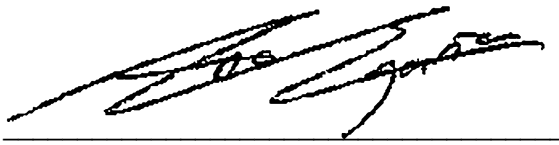

Ana Egana
Production Scientist
20 Jul 2018

Mary Conlon
Packaging Quality Control Inspector
20 Jul 2018