

New England Biolabs Certificate of Analysis

Product Name: T4 RNA Ligase Reaction Buffer
 Catalog Number: B0216L
 Packaging Lot Number: 10204847
 Expiration Date: 01/2025
 Storage Temperature: -20°C
 Specification Version: PS-B0216S/L v1.0
 Composition (1X): 50 mM Tris-HCl, 10 mM MgCl₂, 1 mM DTT, (pH 7.5 @ 25°C)

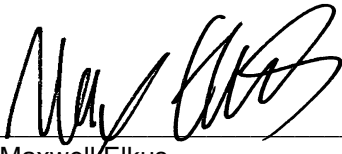
T4 RNA Ligase Reaction Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0756SVIAL	Adenosine 5'-Triphosphate (ATP)	10176561	Pass
B1004SVIAL	PEG 8000	10181125	Pass
B0216SVIAL	T4 RNA Ligase Reaction Buffer	10181127	Pass

Assay Name/Specification	Lot # 10204847
<p>Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X T4 RNA Ligase Reaction Buffer containing 1 µg of supercoiled PhiX174 RF I DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p>Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X T4 RNA 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.</p>	Pass
<p>RNase Activity (Buffer) A 10 µl reaction in 1X T4 RNA Ligase Reaction 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 gel electrophoresis.</p>	Pass
<p>pH (buffers/solutions) The pH of 10X T4 RNA Ligase Reaction Buffer is between pH 7.4 and 7.6 at 25°C.</p>	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.





Maxwell Elkus
Production Scientist
13 Jan 2023



Michael Tonello
Packaging Quality Control Inspector
14 Sep 2023