

New England Biolabs Certificate of Analysis

Product Name: Exonuclease I Reaction Buffer
Catalog Number: B0293S
Concentration: 10 X Concentrate
Packaging Lot Number: 10151461
Expiration Date: 03/2025
Storage Temperature: -20°C
Specification Version: PS-B0293S v2.0
Composition (1X): 67 mM Glycine-KOH, 6.7 mM MgCl₂, 10 mM βME, (pH 9.5 @ 25°C)

Exonuclease I Reaction Buffer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
B0293SVIAL	Exonuclease I Reaction Buffer	10139059	Pass

Assay Name/Specification	Lot # 10151461
Endonuclease Activity (Nicking, Buffer) A 50 µl reaction in 1X Exonuclease I 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
Functional Testing (Reaction Buffer) A 100 µl reaction in 1X Exonuclease I Reaction Buffer containing 0.17 mg/ml of single stranded [³ H] DNA and 1 unit of Exonuclease I (E. coli) incubated for 30 minutes at 37°C results in the release of 10 nmol of acid-soluble nucleotide as determined by scintillation counting.	Pass
Non-Specific DNase Activity (16 hour, Buffer) A 50 µl reaction in 1X Exonuclease I Reaction 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

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.

John D. Greci

John Greci
Production Scientist
24 May 2022

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
24 May 2022