

New England Biolabs Certificate of Analysis

Product Name: *Exonuclease I Reaction Buffer*
Catalog Number: *B0293S*
Concentration: *10 X Concentrate*
Packaging Lot Number: *10262439*
Expiration Date: *01/2027*
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	10211745	Pass

Assay Name/Specification	Lot # 10262439
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.

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Heidi Church
Production Scientist
05 Feb 2024



Josh Hersey
Packaging Quality Control Inspector
21 Oct 2024