

## New England Biolabs Certificate of Analysis

**Product Name:** *Exonuclease I Reaction Buffer*  
**Catalog Number:** *B0293S*  
**Concentration:** *10 X Concentrate*  
**Packaging Lot Number:** *10211744*  
**Expiration Date:** *03/2026*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-B0293S v2.0*  
**Composition (1X):** *67 mM Glycine-KOH, 6.7 mM MgCl<sub>2</sub>, 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	10181126	Pass

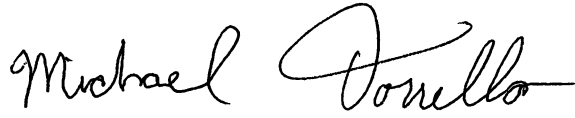
Assay Name/Specification	Lot # 10211744
<b>Endonuclease Activity (Nicking, Buffer)</b> A 50 µl reaction in 1X Exonuclease I Reaction Buffer containing 1 µg of supercoiled PhiX174 DNA incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	<b>Pass</b>
<b>Functional Testing (Reaction Buffer)</b> A 100 µl reaction in 1X Exonuclease I Reaction Buffer containing 0.17 mg/ml of single stranded [ <sup>3</sup> 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.	<b>Pass</b>
<b>Non-Specific DNase Activity (16 hour, Buffer)</b> 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.	<b>Pass</b>

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

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04 Apr 2023



Michael Tonello  
Packaging Quality Control Inspector  
20 Nov 2023