

## New England Biolabs Certificate of Analysis

**Product Name:** Terminal Transferase  
**Catalog Number:** M0315S  
**Concentration:** 20,000 U/ml  
**Unit Definition:** One unit is defined as the amount of enzyme catalyzing the incorporation of 1 nmol dTTP into acid-insoluble material in a total reaction volume of 50 µl in 1 hour at 37°C using d(A)18 as primer.  
**Lot Number:** 10032927  
**Expiration Date:** 12/2020  
**Storage Temperature:** -20°C  
**Storage Conditions:** 100 mM NaCl, 50 mM KPO<sub>4</sub>, 1.43 mM BME, 50 % Glycerol, 0.1 % Triton®X-100, (pH 7.3 @ 25°C)  
**Specification Version:** PS-M0315S/L v1.0

Terminal Transferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0315SVIAL	Terminal Transferase	10029623	Pass
B0315SVIAL	Terminal Transferase Reaction Buffer	10029298	Pass
B0252SVIAL	10X CoCl <sub>2</sub> (Cobalt Chloride) solution	10029296	Pass

Assay Name/Specification	Lot # 10032927
<b>Endonuclease Activity (Nicking)</b> A 50 µl reaction in Terminal Transferase Reaction Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 units of Terminal Transferase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in Terminal Transferase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H ] E. coli DNA and a minimum of 50 units of Terminal Transferase incubated for 4 hours at 37°C releases <0.2% of the total radioactivity.	Pass
<b>Protein Purity Assay (SDS-PAGE)</b> Terminal Transferase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass

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

*Christie Vazquez*

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Christie Vazquez  
Production Scientist  
12 Dec 2018

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
08 Jan 2019