

## 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.  
**Packaging Lot Number:** 10062067  
**Expiration Date:** 09/2021  
**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	10052120	Pass
B0315SVIAL	Terminal Transferase Reaction Buffer	10029298	Pass
B0252SVIAL	10X CoCl <sub>2</sub> (Cobalt Chloride) solution	10029296	Pass

Assay Name/Specification	Lot # 10062067
<p><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 &lt;0.2% of the total radioactivity.</p>	Pass
<p><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 &lt;10% conversion to the nicked form as determined by agarose gel electrophoresis.</p>	Pass
<p><b>Protein Purity Assay (SDS-PAGE)</b>            Terminal Transferase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	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  
27 Sep 2019

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
08 Jan 2020