

## 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:** 10121873  
**Expiration Date:** 08/2023  
**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	10118062	Pass
B0315SVIAL	Terminal Transferase Reaction Buffer	10094630	Pass
B0252SVIAL	10X CoCl <sub>2</sub> (Cobalt Chloride) solution	10094635	Pass

Assay Name/Specification	Lot # 10121873
<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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

*Christie Vazquez*

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04 Oct 2021

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04 Oct 2021