

## 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:** 10131773  
**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             | 10125108   | Pass                 |
| B0252SVIAL                          | 10X CoCl <sub>2</sub> (Cobalt Chloride) solution | 10124967   | Pass                 |

| Assay Name/Specification  | Lot # 10131773 |
|---|----------------|
| <b>Protein Purity Assay (SDS-PAGE)</b><br>Terminal Transferase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.   | Pass           |
| <b>Endonuclease Activity (Nicking)</b><br>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><br>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           |

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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17 Dec 2021

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17 Dec 2021