

New England Biolabs Certificate of Analysis

Product Name: Terminal Transferase
Catalog Number: M0315L
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: 10041794
Expiration Date: 04/2021
Storage Temperature: -20°C
Storage Conditions: 100 mM NaCl, 50 mM KPO₄, 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 |
| M0315LVIAL | Terminal Transferase | 10032961 | Pass |
| B0315SVIAL | Terminal Transferase Reaction Buffer | 10029298 | Pass |
| B0252SVIAL | 10X CoCl ₂ (Cobalt Chloride) solution | 10029296 | Pass |

| Assay Name/Specification | Lot # 10041794 |
|---|----------------|
| Endonuclease Activity (Nicking) 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 |
| Exonuclease Activity (Radioactivity Release) A 50 µl reaction in Terminal Transferase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³ 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 |
| Protein Purity Assay (SDS-PAGE) 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.



Tony Spear-Alfonso
Production Scientist
04 Jan 2019



Josh Hersey
Packaging Quality Control Inspector
03 May 2019