

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: 10240900
Expiration Date: 04/2026
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
M0315SVIAL	Terminal Transferase	10238471	Pass
B0315SVIAL	Terminal Transferase Reaction Buffer	10230874	Pass
B0252SVIAL	10X CoCl ₂ (Cobalt Chloride) solution	10211820	Pass

Assay Name/Specification	Lot # 10240900
<p>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.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in Terminal Transferase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [³H] 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.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) 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.

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Trinh Nguyen
Production Scientist
13 May 2024



Michael Tonello
Packaging Quality Control Inspector
31 May 2024