

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: 10034041
Expiration Date: 12/2020
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	10029624	Pass
B0315SVIAL	Terminal Transferase Reaction Buffer	10029298	Pass
B0252SVIAL	10X CoCl ₂ (Cobalt Chloride) solution	10029296	Pass

Assay Name/Specification	Lot # 10034041
<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.

Christie Vazquez

Christie Vazquez
Production Scientist
12 Dec 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
08 Jan 2019