

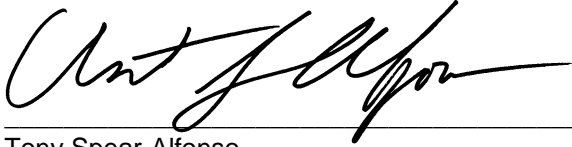
New England Biolabs Certificate of Analysis

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.
Lot Number: 10041797
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

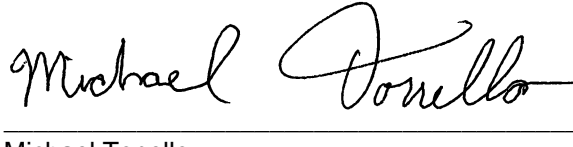
Terminal Transferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0315SVIAL	Terminal Transferase	10032962	Pass
B0315SVIAL	Terminal Transferase Reaction Buffer	10029298	Pass
B0252SVIAL	10X CoCl ₂ (Cobalt Chloride) solution	10029296	Pass

Assay Name/Specification	Lot # 10041797
Protein Purity Assay (SDS-PAGE) Terminal Transferase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	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
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

This product has been tested and shown to be in compliance with all specifications.



Tony Spear-Alfonso
Production Scientist
04 Jan 2019



Michael Tonello
Packaging Quality Control Inspector
22 Apr 2019