

New England Biolabs Certificate of Analysis

Product Name: Terminal Transferase
Catalog #: M0315S/L
Concentration: 20,000 units/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 #: 0211801
Assay Date: 01/2018
Expiration Date: 01/2020
Storage Temp: -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
Effective Date: 04 May 2018

Assay Name/Specification (minimum release criteria)	Lot #0211801
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] <i>E. coli</i> 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

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.



Authorized by
Derek Robinson
04 May 2018



Inspected by
Tony Spear-Alfonso
03 Apr 2018

