NEW ENGLAND BioLabs Inc.
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240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
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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.*
Packaging Lot Number:	*10180973*
Expiration Date:	*11/2024*
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	10170631	**Pass**
B0315SVIAL	Terminal Transferase Reaction Buffer	10154422	**Pass**
B0252SVIAL	10X CoCl2 (Cobalt Chloride) solution	10160083	**Pass**

Assay Name/Specification	**Lot # 10180973**
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 37ºC 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.

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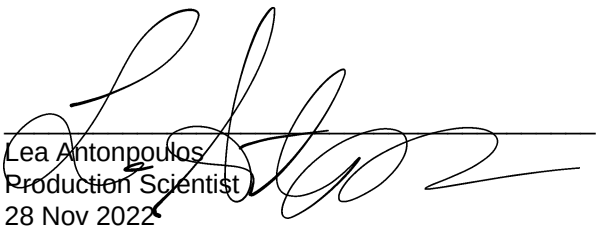

Lea Antonpoulos
Production Scientist
28 Nov 2022

Michael Tonello
Packaging Quality Control Inspector
20 Mar 2023