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## New England Biolabs Certificate of Analysis

Product Name: TelN Protelomerase

Catalog Number: M0651S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 0.5

μg of pMiniT-TeIRL Bsal-linearized DNA in 30 minutes at 30°C in a

total reaction volume of 50 μl.

Packaging Lot Number: 10160881
Expiration Date: 07/2023
Storage Temperature: -20°C

Storage Conditions: 100 mM NaCl , 10 mM Tris-HCl , 1 mM DTT , 0.1 mM EDTA , 50 %

Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0651S v2.0

TelN Protelomerase Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0651SVIAL	TelN Protelomerase	10156107	Pass	
B9004SVIAL	ThermoPol® Reaction Buffer Pack	10165338	Pass	

Assay Name/Specification	Lot # 10160881
Functional Testing (Covalent End Integrity) A 50 μI reaction in ThermoPol® Reaction Buffer containing 0.5 μg of pMiniT-TeIRL DNA and 5 units TeIN Protelomerase incubated for 30 minutes at 30°C followed by heat inactivation and the subsequent addition of 10 units of T5 exonuclease incubated for 1 hour at 37°C results in ≤ 10% loss of starting material as determined by agarose gel electrophoresis.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in ThermoPol® Reaction Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 50 units of TelN Protelomerase 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 ThermoPol® Reaction Buffer containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 25 units of TelN Protelomerase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass



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

TelN Protelomerase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie

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Cathy Shea
Production Scientist

arty Shea

Blue detection.

19 Jul 2022

Michael Tonello

Packaging Quality Control Inspector

08 Nov 2022

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