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## New England Biolabs Certificate of Analysis

Product Name: Pstl
Catalog Number: R0140T
Concentration: 100,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.

Lot Number: 10056488
Expiration Date: 10/2021
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50%

Glycerol, 0.15% Triton X-100, 200 µg/ml BSA

Specification Version: PS-R0140T/M v1.0

Pstl Component List			
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result
R0140TVIAL	PstI	10056487	Pass
B7203SVIAL	NEBuffer™ 3.1	10053972	Pass
B7024SVIAL	Gel Loading Dye, Purple (6X)	10050274	Pass

Assay Name/Specification	Lot # 10056488
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 100 units of Pstl incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) Pstl is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of PstI, religated and transformed into an E. coli strain expressing the LacZ beta fragment gene results in <1% white colonies.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in NEBuffer 3.1 containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 200 units of Pstl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass



R0140T / Lot: 10056488

Page 1 of 2

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

Toreen Duquette

>95% can be recut with Pstl.

Production Scientist

26 Aug 2019

Michael Tonello

Packaging Quality Control Inspector

08 Oct 2019

