NEW ENGLAND BioLabs Inc.
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240 County Road
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New England Biolabs
Certificate of Analysis

Product Name:	*TseI*
Catalog Number:	*R0591L*
Concentration:	*5,000 U/ml*
Unit Definition:	*One unit is defined as the amount of enzyme required to digest 1 µg Lambda DNA in 1 hour at 65°C in a total reaction volume of 50 µl.*
Lot Number:	*10010493*
Expiration Date:	*06/2020*
Storage Temperature:	*-20°C*
Storage Conditions:	*500 mM KCl, 10 mM Tris-HCl (pH 7.5), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA*
Specification Version:	*PS-R0591S/L v1.0*

TseI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0591LVIAL	TseI	10010494	**Pass**
B7204SVIAL	CutSmart® Buffer	3091805	**Pass**

Assay Name/Specification	**Lot # 10010493**
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 5 units of TseI incubated for 4 hours at 65ºC releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with TseI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 25ºC. Of these ligated fragments, >95% can be recut with TseI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 5 Units of TseI incubated for 16 hours at 65ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**

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

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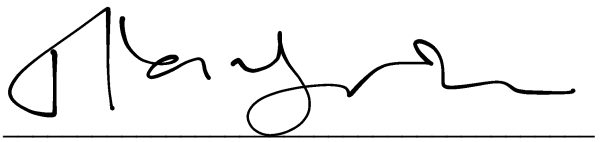

Jianying Luo
Production Scientist
06 Jun 2018

Mary Conlon
Packaging Quality Control Inspector
25 Jun 2018