

be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name:	Tsel
Catalog Number:	R0591L
Concentration:	5,000 U/mI
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g Lambda DNA in 1 hour at 65°C in a total reaction volume of 50 μ l.
Packaging Lot Number:	10093266
Expiration Date:	12/2022
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

Tsel Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0591LVIAL	Tsel	10093267	Pass	
B7204SVIAL	CutSmart® Buffer	10091032	Pass	

Assay Name/Specification	Lot # 10093266
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 Tsel incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 Tsel incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of Lambda DNA with Tsel, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 25°C. Of these ligated fragments, >95% can be recut with Tsel.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.





be INSPIRED drive DISCOVERY stay GENUINE

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

Penghua Zhang

Penghua Zhang Production Scientist 18 Dec 2020

Michae 11.

Michael Tonello Packaging Quality Control Inspector 18 Dec 2020

