

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:	ΤαφαΙ
Catalog Number:	R0149M
Concentration:	100,000 U/mI
Unit Definition:	One unit is defined as the amount of enzyme required to digest $1 \cdot g$ of Lambda DNA in 1 hour at 65°C in a total reaction volume of 50 \cdot I.
Lot Number:	10010511
Expiration Date:	06/2020
Storage Temperature:	-20°C
Storage Conditions:	300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 μg/ml BSA
Specification Version:	PS-R0149T/M v1.0

Taqαl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0149MVIAL	ΤαqαΙ	10010512	Pass	
B7204SVIAL	CutSmart® Buffer	3081804	Pass	

Assay Name/Specification	Lot # 10010511
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of Lambda DNA DNA and a minimum of 200 Units of Taqαl 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 200 units of Taqαl incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA DNA with TaqαI, >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 TaqαI.	Pass

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





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