

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:	Scal-HF®
Catalog Number:	R3122L
Concentration:	20,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 μ g of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μ l.
Lot Number:	10038178
Expiration Date:	03/2021
Storage Temperature:	-20°C
Storage Conditions:	200 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 μg/ml BSA
Specification Version:	PS-R3122S/L v1.0

Scal-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3122LVIAL	Scal-HF®	10038179	Pass	
B7204SVIAL	CutSmart® Buffer	10031568	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10021142	Pass	

Assay Name/Specification	Lot # 10038178
Protein Purity Assay (SDS-PAGE) Scal-HF™ is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart [™] Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 20 Units of Scal-HF [™] incubated for 4 hours at 37°C results in <20% conversion to the nicked form 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 100 units of Scal-HF [™] incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda DNA with Scal-HF [™] , >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with Scal-HF [™] .	Pass





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

Differen Duquette

Differen Duquetter Production Scientist 07 Feb 2019

Michae on.

Michael Tonello Packaging Quality Control Inspector 13 Mar 2019

