

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: Sapl
Catalog Number: R0569L
Concentration: 10,000 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.

Packaging Lot Number: 10062695 Expiration Date: 01/2022 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

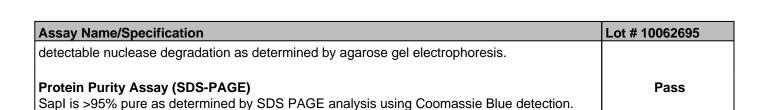
Specification Version: PS-R0569S/L v1.0

Sapl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0569LVIAL	Sapl	10062693	Pass	
B7204SVIAL	CutSmart® Buffer	10061302	Pass	
B7024SVIAL	Gel Loading Dye, Purple (6X)	10059229	Pass	

Assay Name/Specification	Lot # 10062695
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled LITMUS38i DNA and a minimum of 10 units of Sapl 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 [³H] E. coli DNA and a minimum of 30 units of Sapl incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with SapI, >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 SapI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda DNA and a minimum of 30 Units of Sapl incubated for 16 hours at 37°C results in a DNA pattern free of	Pass



R0569L / Lot: 10062695 Page 1 of 2



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

Anthony Francis
Production Scientist

07 Jan 2020

Michael Tonello

Packaging Quality Control Inspector

31 Jan 2020

