NEW ENGLAND BioLabs Inc.
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240 County Road
Ipswich, MA 01938-2723
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www.neb.com
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New England Biolabs
Certificate of Analysis

Product Name:	*SfaNI*
Catalog Number:	*R0172L*
Concentration:	*2,000 U/ml*
Unit Definition:	*One unit is defined as the amount of enzyme required to digest 1 µg of PhiX174 RF I DNA in 1 hour at 37°C in a total reaction volume of 50 µl.*
Lot Number:	*10010489*
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-R0172S/L v1.0*

SfaNI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0172LVIAL	SfaNI	10010490	**Pass**
B7203SVIAL	NEBuffer™ 3.1	10010189	**Pass**
B7024SVIAL	Gel Loading Dye, Purple (6X)	10013725	**Pass**

Assay Name/Specification	**Lot # 10010489**
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 6 units of SfaNI incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of PhiX174 DNA with SfaNI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16ºC. Of these ligated fragments, >95% can be recut with SfaNI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of PhiX174 DNA and a minimum of 2 Units of SfaNI incubated for 16 hours at 37ºC 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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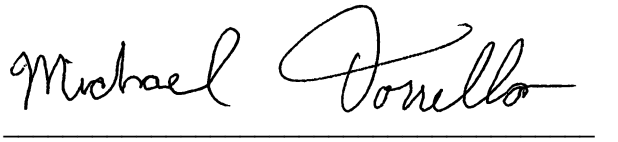
Tony Spear-Alfonso
Production Scientist
06 Jun 2018



Michael Tonello
Packaging Quality Control Inspector
27 Aug 2018