New England BioLabs Inc.

be INSPIRED
drive DISCOVERY
stay GENUINE

240 County Road
Ipswich, MA 01938-2723

Tel 978-927-5054
Fax 978-921-1350
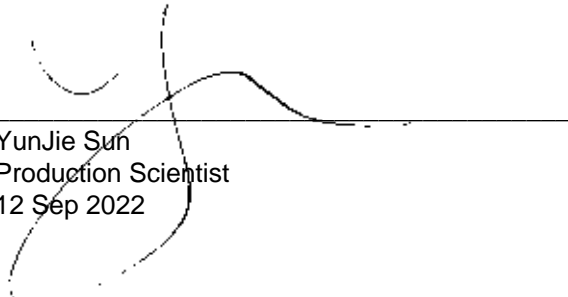
www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Product Name:	*BsaWI*
Catalog Number:	*R0567S*
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 60°C in a total reaction volume of 50 μl.*
Packaging Lot Number:	*10163608*
Expiration Date:	*09/2024*
Storage Temperature:	*-20°C*
Storage Conditions:	*50 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-R0567S/L v1.0*

BsaWI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0567SVIAL	BsaWI	10163607	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10156434	**Pass**

Assay Name/Specification	Lot # 10163608
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 50 units of BsaWI incubated for 4 hours at 60ºC releases <0.1% of the total radioactivity.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 μl reaction in CutSmart™ Buffer containing 1 μg of Lambda DNA and a minimum of 10 units of BsaWI incubated for 16 hours at 60ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsaWI, >95% 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 BsaWI.	**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.

_____
YunJie Sun
Production Scientist
12 Sep 2022

_____
Erin Varney
Packaging Quality Control Inspector
16 Sep 2022

ISO 9001 Registered Quality Management
ISO 13485 Registered Medical Devices
ISO 14001 Registered Environmental Management

R0567S / Lot: 10163608