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:	*BsmI*
Catalog Number:	*R0134S*
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 65°C in a total reaction volume of 50 µl.*
Lot Number:	*10046345*
Expiration Date:	*06/2021*
Storage Temperature:	*-20°C*
Storage Conditions:	*50 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA*
Specification Version:	*PS-R0134S/L v1.0*

BsmI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0134SVIAL	BsmI	10046346	**Pass**
B7204SVIAL	CutSmart® Buffer	10043912	**Pass**

Assay Name/Specification	**Lot # 10046345**
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 BsmI incubated for 4 hours at 65ºC releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsmI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25ºC. Of these ligated fragments, >95% can be recut with BsmI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBR322 DNA and a minimum of 30 units of BsmI incubated for 16 hours at 65ºC 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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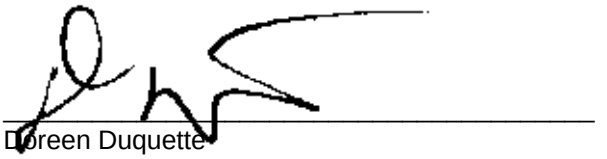
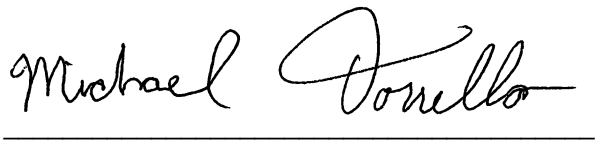


Doreen Duquette
Production Scientist
23 May 2019



Michael Tonello
Packaging Quality Control Inspector
17 Jun 2019