

## New England Biolabs Certificate of Analysis

**Product Name:** *Nb.BsrDI*  
**Catalog Number:** *R0648S*  
**Concentration:** *10,000 U/ml*  
**Unit Definition:** *One unit is defined as the amount of enzyme required to convert 1 µg of supercoiled pUC19 DNA to open circular form in 1 hour at 65°C in a total reaction volume of 50 µl.*  
**Packaging Lot Number:** *10063164*  
**Expiration Date:** *01/2022*  
**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-R0648S/L v1.0*

Nb.BsrDI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0648SVIAL	Nb.BsrDI	10063169	Pass
B7204SVIAL	CutSmart® Buffer	10064409	Pass

Assay Name/Specification	Lot # 10063164
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pUC19 DNA and a minimum of 30 units of Nb.BsrDI incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 100 units of Nb.BsrDI incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	Pass

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

*Stephanie Cornelio*

Stephanie Cornelio  
Production Scientist  
07 Jan 2020

*Jay Minichiello*

Jay Minichiello  
Packaging Quality Control Inspector  
11 Feb 2020