

New England Biolabs Certificate of Analysis

Product Name: *Nb.BsrDI*
Catalog Number: *R0648L*
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.*
Lot Number: *10044791*
Expiration Date: *05/2021*
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
R0648LVIAL	Nb.BsrDI	10044792	Pass
B7204SVIAL	CutSmart® Buffer	10043913	Pass

Assay Name/Specification	Lot # 10044791
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 Nb.BsrDI incubated for 4 hours at 65°C 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 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

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

Stephanie Cornelio

Stephanie Cornelio
Production Scientist
21 May 2019

Jay Minichiello

Jay Minichiello
Packaging Quality Control Inspector
02 Aug 2019