

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: *10033903*
Expiration Date: *01/2021*
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	10033904	Pass
B7204SVIAL	CutSmart® Buffer	10031565	Pass

Assay Name/Specification	Lot # 10033903
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.



Tony Spear-Alfonso
Production Scientist
02 Jan 2019



Michael Tonello
Packaging Quality Control Inspector
11 Jan 2019