![New England BioLabs Inc. logo]

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New England Biolabs
Certificate of Analysis

Product Name:	*BsrDI*
Catalog Number:	*R0574L*
Concentration:	*5,000 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.*
Packaging Lot Number:	*10144571*
Expiration Date:	*02/2024*
Storage Temperature:	*-20°C*
Storage Conditions:	*100 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-R0574S/L v1.0*

BsrDI Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
R0574LVIAL	BsrDI	10139887	Pass
B6002SVIAL	NEBuffer™ r2.1	10102965	Pass

Assay Name/Specification	Lot # 10144571
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 50 units of BsrDI 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 BsrDI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25ºC. Of these ligated fragments, ~75% can be recut with BsrDI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of Lambda DNA and a minimum of 5 units of BsrDI 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.

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.

![nqa ISO 9001 Registered Quality Management] ![nqa ISO 13485 Registered Medical Devices] ![nqa ISO 14001 Registered Environmental Management]

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Penghua Zhang
Production Scientist
10 Mar 2022

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Michael Tonello
Packaging Quality Control Inspector
10 Mar 2022

R0574L / Lot: 10144571