

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: BsrDl
Catalog Number: R0574S
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 NEBuffer r2.1 in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10152705 Expiration Date: 06/2024 Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol,

200 μg/ml rAlbumin (pH 7.4 @ 25°C)

Specification Version: PS-R0574S/L v2.0

BsrDI Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0574SVIAL	BsrDI	10152646	Pass	
B6002SVIAL	NEBuffer™ r2.1	10151373	Pass	

Assay Name/Specification	Lot # 10152705
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of Lambda DNA with BsrDI, >95% of the DNA fragments	Pass
can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, ~75% can be recut with BsrDI.	
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer™ r2.1 containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 50 units of BsrDI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Functional Testing (15 minute Digest)	Pass
A 50 µl reaction in NEBuffer™ r2.1 containing 1 µg of Lambda DNA and 1 µl of BsrDl incubated for 15 minutes at 37°C results in complete digestion as determined by	1 433
agarose gel electrophoresis.	
qPCR DNA Contamination (E. coli Genomic)	Pass
A minimum of 5 units of BsrDI is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results	



R0574S / Lot: 10152705 Page 1 of 2 This product has been tested and shown to be in compliance with all specifications.

detectable nuclease degradation as determined by agarose gel electrophoresis.

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.

Penghua Zhang Production Scientist

12 Jul 2022

Michael Tonello

Packaging Quality Control Inspector

12 Jul 2022



R0574S / Lot: 10152705

Page 2 of 2