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New England Biolabs Certificate of Analysis

Product Name: BsrDl
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: 1012153
Expiration Date: 09/2023
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

BsrDl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0574LVIAL	BsrDI	10121530	Pass	
B6002SVIAL	NEBuffer™ r2.1	10102965	Pass	

Assay Name/Specification	Lot # 10121531
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 25°C. 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 65°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
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 65°C releases <0.1% of the total radioactivity.	Pass

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

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Pengha Zhang Production Scientist 07 Oct 2021 Michael Tonello

Packaging Quality Control Inspector 07 Oct 2021