

DISCOVERY 240 County Road
GENUINE 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: Bsu36l
Catalog Number: R0524S
Concentration: 10,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (Hind III digest) in 1 hour at 37°C in a total

reaction volume of 50 μl.

Packaging Lot Number: 10091180
Expiration Date: 08/2022
Storage Temperature: -20°C

Storage Conditions: 250 mM NaCl, 10 mM Tris-HCl (7.4), 1 mM DTT, 0.1 mM EDTA, 50 %

Glycerol, 0.15 % TritonX-100, 200 µg/ml BSA

Specification Version: PS-R0524S/L v1.0

Bsu36l Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0524SVIAL	Bsu36l	10080825	Pass	
B7204SVIAL	CutSmart® Buffer	10089397	Pass	

Assay Name/Specification	Lot # 10091180
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass
a minimum of 10 units of Bsu36l incubated for 4 hours at 37°C results in <20%	
conversion to the nicked form as determined by agarose gel electrophoresis.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	
double-stranded [³H] E. coli DNA and a minimum of 100 units of Bsu36l incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Thouse at or o relication term retained burns.	
Ligation and Recutting (Terminal Integrity)	Pass
After a 2-fold over-digestion of Lambda-HindIII DNA with Bsu36I, ~25% of the DNA fragments can be ligated with T4 DNA ligase in 4 hours at 25°C. Of these ligated	
fragments, >95% can be recut with Bsu36I.	
Non-Specific DNase Activity (16 Hour)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of Lambda-HindIII DNA and a	
minimum of 30 units of Bsu36l incubated for 16 hours at 37°C results in a DNA	



R0524S / Lot: 10091180

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Assay Name/Specification	Lot # 10091180
pattern free of detectable nuclease degradation as determined by agarose gel	
electrophoresis.	

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.

Penghaa Zhang Production Scientist

17 Nov 2020

Josh Hersey

Packaging Quality Control Inspector

17 Nov 2020

