

*be* INSPIRED *drive* DISCOVERY *stay* GENUINE

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:	Bsu36l
Catalog Number:	R0524L
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:	10135265
Expiration Date:	08/2023
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

Bsu36I Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0524LVIAL	Bsu36l	10117489	Pass	
B6004SVIAL	rCutSmart™ Buffer	10123108	Pass	

Assay Name/Specification	Lot # 10135265
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart <sup>™</sup> 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 pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> 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.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart <sup>™</sup> Buffer containing 1 µg of supercoiled PhiX174 DNA and 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.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μI reaction in CutSmart™ Buffer containing 1 μg of a mixture of single and	Pass





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Assay Name/Specification	Lot # 10135265
double-stranded [ 3H] E. coli DNA and a minimum of 100 units of Bsu36I incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	

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.

Penghua Zhang

Penghua Zhang Production Scientist 10 Feb 2022

Michae

Michael Tonello Packaging Quality Control Inspector 10 Feb 2022

