

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: BtsIMutl
Catalog Number: R0664S
Concentration: 1,000 U/ml

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

of pUC19 DNA in 1 hour at 55°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10089113
Expiration Date: 11/2022
Storage Temperature: -20°C

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

Glycerol, 200 µg/ml BSA

Specification Version: PS-R0664S v1.0

BtslMutl Component List				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0664SVIAL	BtslMutl	10089114	Pass	
B7204SVIAL	CutSmart® Buffer	10089407	Pass	

Assay Name/Specification	Lot # 10089113
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pUC19 DNA and a minimum of 5 units of BtslMutl incubated for 16 hours at 55°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of pUC19 DNA with BtsIMutl, ~50% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with BtsIMutl.	Pass
Exonuclease Activity (Radioactivity Release) 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 5 units of BtslMutl incubated for 4 hours at 55°C releases <0.5% of the total radioactivity.	Pass

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

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R0664S / Lot: 10089113



Penghua Zhang Production Scientist 01 Dec 2020 Michael Tonello

Packaging Quality Control Inspector

01 Dec 2020