240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
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New England Biolabs
Certificate of Analysis

Product Name:	*BmrI*
Catalog Number:	*R0600S*
Concentration:	*5,000 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:	*10236225*
Expiration Date:	*03/2026*
Storage Temperature:	*-20°C*
Storage Conditions:	*300 mM NaCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 500 µg/ml BSA*
Specification Version:	*PS-R0600S/L v1.0*

BmrI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0600SVIAL	BmrI	10227507	**Pass**
B6002SVIAL	NEBuffer™ r2.1	10211339	**Pass**

Assay Name/Specification	**Lot # 10236225**
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 5 units of BmrI incubated for 4 hours at 37ºC results in <50% conversion to the nicked form as determined by agarose gel electrophoresis.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 2-fold over-digestion of Lambda HindIII DNA with BmrI, ~75% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16ºC. Of these ligated fragments, >95% can be recut with BmrI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of Lambda HindIII DNA and a minimum of 5 Units of BmrI incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
Protein Purity Assay (SDS-PAGE) BmrI is >95% pure as determined by SDS PAGE analysis using Coomassie Blue detection.	**Pass**

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

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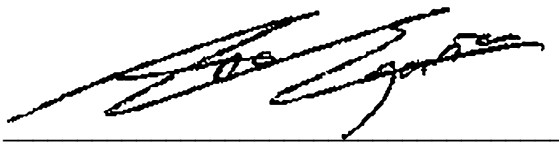

Ana Egana
Production Scientist
11 Mar 2024

Michael Tonello
Packaging Quality Control Inspector
11 Mar 2024