

*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:	Bmrl
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:	10091237
Expiration Date:	09/2022
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

Bmrl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0600SVIAL	Bmrl	10084399	Pass	
B7202SVIAL	NEBuffer™ 2.1	10087451	Pass	

Assay Name/Specification	Lot # 10091237
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 2.1 containing 1 µg of supercoiled PhiX174 DNA and a	Pass
minimum of 5 units of BmrI incubated for 4 hours at 37°C results in <50% conversion to the nicked form as determined by agarose gel electrophoresis.	
<b>Ligation and Recutting (Terminal Integrity)</b> 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 16°C. Of these ligated fragments, >95% can be recut with BmrI.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> 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 37 <sup>o</sup> C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
<b>Protein Purity Assay (SDS-PAGE)</b> Bmrl 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.





*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

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 Production Scientist 20 Nov 2020

Min 11.

Michael Tonello Packaging Quality Control Inspector 20 Nov 2020

