NEW ENGLAND BioLabs Inc.

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drive DISCOVERY
stay GENUINE

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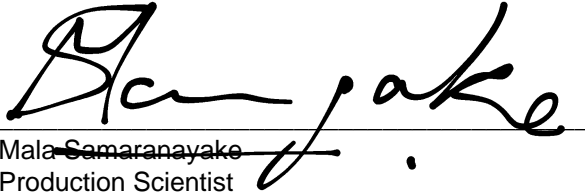
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New England Biolabs
Certificate of Analysis

Product Name:	*BceAI*
Catalog Number:	*R0623L*
Concentration:	*2,000 U/ml*
Unit Definition:	*One unit is defined as the amount of enzyme required to digest 1 µg of pBR322 DNA in 1 hour at 37°C in a total reaction volume of 50 µl.*
Packaging Lot Number:	*10116231*
Expiration Date:	*07/2023*
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-R0623S/L v1.0*

BceAI Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
R0623LVIAL	BceAI	10116232	**Pass**
B6003SVIAL	NEBuffer™ r3.1	10110766	**Pass**

Assay Name/Specification	Lot # 10116231
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 10 units of BceAI incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 5-fold over-digestion of pBR322 DNA with BceAI, >95% 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 BceAI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of pBR322 DNA and a minimum of 2 Units of BceAI incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**

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.

nqa. ISO 9001 Registered Quality Management
nqa. ISO 13485 Registered Medical Devices
nqa. ISO 14001 Registered Environmental Management

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Mala Samaranayake
Production Scientist
23 Aug 2021

Michael Tonello
Packaging Quality Control Inspector
23 Aug 2021

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