NEW ENGLAND BioLabs Inc.
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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:	*I-CeuI*
Catalog Number:	*R0699L*
Concentration:	*5,000 U/ml*
Unit Definition:	*One unit is defined as the amount of enzyme required to cleave 1 µg of pBHS ScaI-linearized Control Plasmid in 3 hours at 37°C in a total reaction volume of 50 µl.*
Packaging Lot Number:	*10223302*
Expiration Date:	*11/2025*
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-R0699S/L v1.0*

I-CeuI Component List

NEB Part Number	Component Description	Lot Number	Individual QC Result
R0699LVIAL	I-CeuI	10217802	**Pass**
N0423SVIAL	pBHS ScaI-linearized Control Plasmid	10217804	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10222661	**Pass**

Assay Name/Specification	Lot # 10223302
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 15 Units of I-CeuI incubated for 4 hours at 37ºC results in <20% conversion to the nicked form as determined by agarose gel electrophoresis.	**Pass**
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 50 units of I-CeuI incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**Pass**
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pBHS-ScaI DNA with I-CeuI, >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 I-CeuI.	**Pass**
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBHS-ScaI DNA and a minimum	**Pass**

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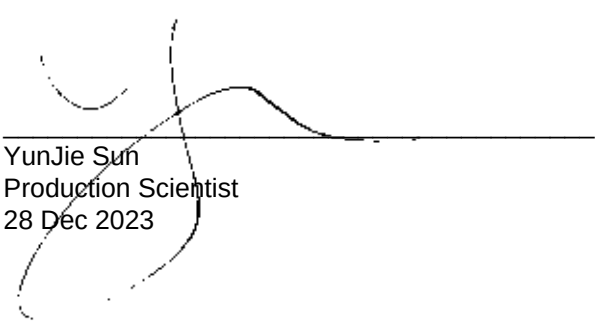
Assay Name/Specification	Lot # 10223302
of 50 Units of I-CeuI incubated for 16 hours at 37ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	

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.



YunJie Sun
Production Scientist
28 Dec 2023

Michael Tonello
Packaging Quality Control Inspector
02 Jan 2024