

New England Biolabs Certificate of Analysis

Product Name: I-CeuI
Catalog Number: R0699S
Concentration: 5,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to cleave 1 µg of pBHS Scal-linearized Control Plasmid in 3 hours at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10173049
Expiration Date: 12/2024
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
R0699SVIAL	I-CeuI	10173048	Pass
N0423SVIAL	pBHS Scal-linearized Control Plasmid	10173051	Pass
B6004SVIAL	rCutSmart™ Buffer	10173661	Pass

Assay Name/Specification	Lot # 10173049
Ligation and Recutting (Terminal Integrity) After a 10-fold over-digestion of pBHS-Scal DNA with I-CeuI, >95% 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 I-CeuI.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of pBHS-Scal DNA and a minimum of 50 Units of I-CeuI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation 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 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of supercoiled PhiX174 DNA and	Pass

Assay Name/Specification	Lot # 10173049
a minimum of 15 Units of I-Ceul incubated for 4 hours at 37°C results in <20% conversion to the nicked form 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.



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22 Dec 2022



Michael Tonello
Packaging Quality Control Inspector
28 Dec 2022