

*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:	CviAll
Catalog Number:	R0640L
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to digest 1 $\mu$ g of pUC19 DNA in 1 hour at 25°C in a total reaction volume of 50 $\mu$ l.
Packaging Lot Number:	10062985
Expiration Date:	12/2020
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl, 250 mM NaCl, 10 mM TCEP-HCl, 1 mM DTT, 0.1 mM EDTA, 0.15% Triton®X-100, 50% Glycerol, 200 μg/ml BSA, (pH 7.4 @ 25°C)
Specification Version:	PS-R0640S/L v2.0

CviAll Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0640LVIAL	CviAll	10062984	Pass
B7204SVIAL	CutSmart® Buffer	10055736	Pass

Assay Name/Specification	Lot # 10062985
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] E. coli DNA and a minimum of 10 units of CviAII incubated for 4 hours at 25°C releases <0.1% of the total radioactivity.	Pass
<b>Ligation and Recutting (Terminal Integrity)</b> After a 10-fold over-digestion of pUC19 DNA with CviAII, >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 CviAII.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 µl reaction in CutSmart® Buffer containing 1 µg of pUC19 DNA and a minimum of 30 units of CviAII incubated for 16 hours at 25°C 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.





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Mala<del>-Samaranayake</del> Production Scientist **(** 13 Dec 2019

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Michael Tonello Packaging Quality Control Inspector 16 Dec 2019

