

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:	Cre Recombinase
Catalog Number:	M0298L
Concentration:	1,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme necessary to produce maximal site-specific recombination of 0.25 µg pLox2+ control DNA in 30 minutes at 37°C in a total reaction volume of 50 µl. Maximal recombination is determined by agarose gel analysis and by transformation of reactions followed by selection on ampicillin plates.
Packaging Lot Number:	10215722
Expiration Date:	09/2024
Storage Temperature:	-20°C
Storage Conditions:	15 mM Tris-HCl, 250 mM NaCl, 50 % Glycerol, 0.3 mg/ml BSA, (pH 8.0 @ 25°C)
Specification Version:	PS-M0298S/L v1.0

Cre Recombinase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N0416SVIAL	Control DNA Linearized pLox2+	10185144	Pass	
M0298LVIAL	Cre Recombinase	10206189	Pass	
B0298SVIAL	Cre Recombinase Reaction Buffer	10207550	Pass	

Assay Name/Specification	Lot # 10215722
<b>Exonuclease Activity (Radioactivity Release)</b> A 50 µl reaction in Cre Recombinase Reaction 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 Cre Recombinase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
<b>Non-Specific DNase Activity (16 Hour)</b> A 50 ul reaction in Cre Recombinase Reaction Buffer containing 1 ug of PhiX174 RF 1 (HaeIII digested) DNA and a minimum of 10 units of Cre Recombinase incubated for 16 hours at 37°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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Lauren Higgins

Lauren Sears Higgins Production Scientist 01 Sep 2023

Michae 11.

Michael Tonello Packaging Quality Control Inspector 28 Nov 2023

