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: 10077089
Expiration Date: 07/2021
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
N0416SVIAL	Control DNA Linearized pLox2+	10064756	Pass	
M0298LVIAL	Cre Recombinase	10077086	Pass	
B0298SVIAL	Cre Recombinase Reaction Buffer	0011807	Pass	

Assay Name/Specification	Lot # 10077089
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in Cre Recombinase Reaction Buffer containing 1 μg of a mixture of single and double-stranded [ ³H] E. coli DNA and a minimum of 10 units of Cre	Pass
Recombinase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.  Non-Specific DNase Activity (16 Hour)	Pass
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.	

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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NEW ENGLAND

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12 Aug 2020

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12 Aug 2020