NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name:	*Cre Recombinase*
Catalog Number:	*M0298S*
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:	*10077090*
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

NEB Part Number	Component Description	Lot Number	Individual QC Result
N0416SVIAL	Control DNA Linearized pLox2+	10064756	**Pass**
M0298SVIAL	Cre Recombinase	10077087	**Pass**
B0298SVIAL	Cre Recombinase Reaction Buffer	0011807	**Pass**

Assay Name/Specification	Lot # 10077090
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in Cre Recombinase Reaction Buffer containing 1 µg of a mixture of single and double-stranded [^{3}H] E. coli DNA and a minimum of 10 units of Cre Recombinase incubated for 4 hours at 37ºC releases <0.1% of the total radioactivity.	**Pass**
Non-Specific DNase Activity (16 Hour) 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 37ºC 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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10 Aug 2020

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