

240 County Road Ipswich, MA 01938-2723

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New England Biolabs Certificate of Analysis

Product Name: Cre Recombinase

Catalog Number: M0298M
Concentration: 15,000 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: 10060880
Expiration Date: 10/2020
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-M0298M v1.0

Cre Recombinase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
N0416SVIAL	Control DNA Linearized pLox2+	10058708	Pass	
M0298MVIAL	Cre Recombinase	10055345	Pass	
B0298SVIAL	Cre Recombinase Reaction Buffer	0011807	Pass	

Assay Name/Specification	Lot # 10060880
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.



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Packaging Quality Control Inspector

25 Nov 2019