

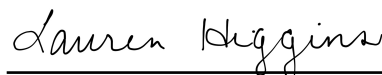
## New England Biolabs Certificate of Analysis

*Product Name:* Cre Recombinase  
*Catalog #:* M0298S/L  
*Concentration:* 1,000 units/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.  
*Lot #:* 0081803  
*Assay Date:* 03/2018  
*Expiration Date:* 03/2019  
*Storage Temp:* -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  
*Effective Date:* 08 Jun 2018

Assay Name/Specification (minimum release criteria)	Lot #0081803
<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] <i>E. coli</i> DNA and a minimum of 10 units of Cre Recombinase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	<b>Pass</b>
<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.	<b>Pass</b>



Authorized by  
Derek Robinson  
08 Jun 2018



Inspected by  
Lauren Higgins  
01 Mar 2018

