

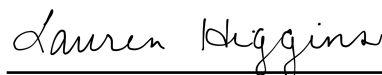
New England Biolabs Certificate of Analysis

Product Name: Cre Recombinase
Catalog #: M0298M
Concentration: 15,000 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-M0298M v1.0
Effective Date: 08 Jun 2018

Assay Name/Specification (minimum release criteria)	Lot #0081803
<p>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] <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.</p>	Pass
<p>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 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass



Authorized by
Derek Robinson
08 Jun 2018



Inspected by
Lauren Higgins
01 Mar 2018

