

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.
Lot Number: 10041775
Expiration Date: 04/2020
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-M0298S/L v1.0

Cre Recombinase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
N0416SVIAL	Control DNA Linearized pLox2+	10019427	Pass
M0298LVIAL	Cre Recombinase	10041776	Pass
B0298SVIAL	Cre Recombinase Reaction Buffer	0011707	Pass

Assay Name/Specification	Lot # 10041775
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in Cre Recombinase Reaction Buffer containing 1 µg 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.	Pass
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 37°C releases <0.1% of the total radioactivity.	Pass

This product has been tested and shown to be in compliance with all specifications.

Lauren Higgins

Lauren Sears Higgins
Production Scientist
24 Aug 2018

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
09 May 2019