

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: 10180912
Expiration Date: 02/2024
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+	10139040	Pass
M0298SVIAL	Cre Recombinase	10178177	Pass
B0298SVIAL	Cre Recombinase Reaction Buffer	10142265	Pass

Assay Name/Specification	Lot # 10180912
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
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.	Pass

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Lauren Higgins

Lauren Sears Higgins
Production Scientist
09 Feb 2023



Josh Hersey
Packaging Quality Control Inspector
14 Feb 2023