240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
info@neb.com

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.*
Packaging Lot Number:	*10230669*
Expiration Date:	*02/2025*
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+	10230674	**Pass**
M0298LVIAL	Cre Recombinase	10230668	**Pass**
B0298SVIAL	Cre Recombinase Reaction Buffer	10207550	**Pass**

Assay Name/Specification	**Lot # 10230669**
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 37ºC 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 37ºC 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.

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Jamie Souza
Production Scientist
04 Mar 2024

Josh Hersey
Packaging Quality Control Inspector
05 Mar 2024