

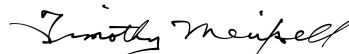
New England Biolabs Certificate of Analysis

Product Name: EcoRI Methyltransferase
Catalog #: M0211S
Concentration: 40,000 units/ml
Unit Definition: One unit is defined as the amount of enzyme required to protect 1 µg Lambda DNA in 1 hour at 37°C in a total reaction volume of 10 µl against cleavage by EcoRI restriction endonuclease.
Lot #: 0131802
Assay Date: 02/2018
Expiration Date: 02/2020
Storage Temp: -20°C
Storage Conditions: 200 mM NaCl, 100 mM Potassium Phosphate, 0.1 mM EDTA, 10 mM βME, 200 µg/ml BSA, 50% Glycerol, (pH 7.4 @ 25°C)
Specification Version: PS-M0211S v1.0
Effective Date: 18 May 2018

Assay Name/Specification (minimum release criteria)	Lot #0131802
Exonuclease Activity (Radioactivity Release) - A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 400 units of EcoRI Methyltransferase incubated for 4 hours at 37°C releases <0.3% of the total radioactivity.	Pass
Functional Testing (Methyltransferase) - A 10 µl reaction in EcoRI Methyltransferase Reaction Buffer supplemented with 80 µM SAM containing 1 µg of Lambda DNA and 1 unit of EcoRI Methyltransferase incubated for 1 hour at 37°C followed by heat inactivation results in ≥ 95% protection from digestion with 5 units of EcoRI in NEBuffer 2 incubated at 37°C for 30 minutes as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) - A 50 µl reaction in NEBuffer 2 containing 1 µg of Lambda-HindIII DNA and a minimum of 400 units of EcoRI Methyltransferase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass



Authorized by
Derek Robinson
18 May 2018



Inspected by
Timothy Meixsell
13 Feb 2018

