

New England Biolabs Certificate of Analysis

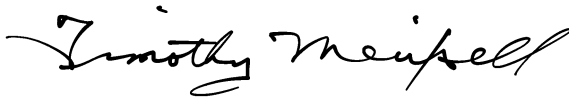
Product Name: *EcoRI Methyltransferase*
Catalog Number: M0211S
Concentration: 40,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to protect 1 µg Lambda DNA in 1 hour at 37°C in a total reaction volume of 10 µl against cleavage by EcoRI restriction endonuclease.
Lot Number: 10044277
Expiration Date: 02/2021
Storage Temperature: -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

EcoRI Methyltransferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0211SVIAL	EcoRI Methyltransferase	10038526	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10041003	Pass
B0211SVIAL	EcoRI Methyltransferase Reaction Buffer	10013420	Pass

Assay Name/Specification	Lot # 10044277
<p>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.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 400 units of EcoRI Methyltransferase incubated for 4 hours at 37°C releases <0.3% of the total radioactivity.</p>	Pass
<p>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</p>	Pass

Assay Name/Specification	Lot # 10044277
determined by agarose gel electrophoresis.	

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



Tim Meixsell
Production Scientist
22 Aug 2018



Michael Tonello
Packaging Quality Control Inspector
31 May 2019