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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: 10054602
Expiration Date: 07/2021
Storage Temperature: -20°C

Storage Conditions: 200 mM NaCl, 100 mM Potassium Phosphate, 0.1 mM EDTA, 10 mM \(\beta ME, 200 \)

 μ g/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	10054603	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10049759	Pass	
B0211SVIAL	EcoRI Methyltransferase Reaction Buffer	10013420	Pass	

Assay Name/Specification	Lot # 10054602
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
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 EcoRl Methyltransferase incubated for 4 hours at 37°C releases <0.3% of the total radioactivity.	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	Pass



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Assay Name/Specification	Lot # 10054602
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

25 Sep 2019

