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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 rCutSmart™ Buffer in a total reaction volume of 10 µl against cleavage by EcoRl restriction

endonuclease.

Packaging Lot Number: 10183231
Expiration Date: 02/2025
Storage Temperature: -20°C

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

μg/ml BSA, 50% Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0211S v2.0

EcoRI Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0211SVIAL	EcoRI Methyltransferase	10176794	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10171171	Pass	
B6004SVIAL	rCutSmart™ Buffer	10179341	Pass	

Assay Name/Specification	Lot # 10183231
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in rCutSmart™ Buffer 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
Functional Testing (Methyltransferase) A 10 μl reaction in rCutSmart™ 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 10 units of EcoRI in rCutSmart™ Buffer 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 rCutSmart™ Buffer containing 1 µg of Lambda-HindIII DNA and a minimum of 400 units of EcoRI Methyltransferase incubated for 16 hours at 37°C	Pass



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Assay Name/Specification	Lot # 10183231
results in a DNA pattern free of detectable nuclease degradation as determined by	
agarose gel electrophoresis.	

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.

Jamie Souza
Production Scientist

06 Mar 2023

Michael Tonello

Packaging Quality Control Inspector

08 Mar 2023



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