

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:	EcoRI Methyltransferase
Catalog Number:	M0211S
Concentration:	40,000 U/mI
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 EcoRI restriction endonuclease.
Packaging Lot Number:	10225042
Expiration Date:	01/2026
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 v2.0

EcoRI Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0211SVIAL	EcoRI Methyltransferase	10225041	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10210241	Pass	
B6004SVIAL	rCutSmart™ Buffer	10224839	Pass	

Assay Name/Specification	Lot # 10225042
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in rCutSmart <sup>™</sup> Buffer containing 1 µg of a mixture of single and double-stranded [ <sup>3</sup> H] 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.	Pass
Functional Testing (Methyltransferase) A 10 µl reaction in rCutSmart <sup>™</sup> 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 <sup>™</sup> 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 37⁰C	Pass





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Assay Name/Specification	Lot # 10225042
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.

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Nic agnozzi **Production Scientist** 25 Jan 2024

Michae

Michael Tonello Packaging Quality Control Inspector 29 Jan 2024

