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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: 10121432
Expiration Date: 10/2023
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 | 10121431 | Pass | |
| B9003SVIAL | S-adenosylmethionine (SAM) | 10124322 | Pass | |
| B6004SVIAL | rCutSmart™ Buffer | 10121394 | Pass | |

| Assay Name/Specification | Lot # 10121432 |
|---|----------------|
| 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 |
| 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 results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis. | 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 | Pass |



M0211S / Lot: 10121432

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| Assay Name/Specification | Lot # 10121432 |
|--|----------------|
| units of EcoRI in rCutSmart™ Buffer incubated at 37°C for 30 minutes 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.

Timothy Meixsell Production Scientist

06 Dec 2021

Josh Hersey

Packaging Quality Control Inspector

06 Dec 2021

