

New England Biolabs Certificate of Analysis

Product Name: *TaqI Methyltransferase*
Catalog Number: *M0219S*
Concentration: *10,000 U/ml*
Unit Definition: *One unit is defined as the amount of enzyme required to protect 1 µg Lambda DNA in 1 hour at 65°C in a total reaction volume of 20 µl against cleavage by TaqI restriction endonuclease.*
Packaging Lot Number: *10210687*
Expiration Date: *10/2025*
Storage Temperature: *-20°C*
Storage Conditions: *100 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 200 µg/ml BSA, (pH 7.4 @ 25°C)*
Specification Version: *PS-M0219S v1.0*

TaqI Methyltransferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0219SVIAL	TaqI Methyltransferase	10210688	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10193027	Pass
B6004SVIAL	rCutSmart™ Buffer	10204838	Pass

Assay Name/Specification	Lot # 10210687
<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 100 units of TaqI Methyltransferase incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Functional Testing (Methyltransferase) A 20 µl reaction in CutSmart® Buffer supplemented with 80 µM SAM containing 1 µg of Lambda DNA and 1 unit of TaqI Methyltransferase incubated for 1 hour at 65°C followed by heat inactivation results in ≥ 95% protection from digestion with 10 units of TaqI in CutSmart® Buffer incubated at 65°C for 15 minutes as determined by agarose gel electrophoresis.</p>	Pass
<p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of BstEII digested Lambda DNA and a minimum of 100 units of TaqI Methyltransferase incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation as determined by</p>	Pass

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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
11 Oct 2023



Josh Hersey
Packaging Quality Control Inspector
12 Oct 2023