

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: *10067098*
Expiration Date: *10/2021*
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	10056209	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10070537	Pass
B7204SVIAL	CutSmart® Buffer	10074633	Pass

Assay Name/Specification	Lot # 10067098
<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 agarose gel electrophoresis.</p>	Pass
<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</p>	Pass

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agarose gel electrophoresis.	

This product has been tested and shown to be in compliance with all specifications.



Timothy Meixsell
Production Scientist
22 Jun 2020



Josh Hersey
Packaging Quality Control Inspector
22 Jun 2020