NEW ENGLAND BioLabs Inc.
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240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
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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:	*10163792*
Expiration Date:	*09/2024*
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	10163793	**Pass**
B9003SVIAL	S-adenosylmethionine (SAM)	10153874	**Pass**
B6004SVIAL	rCutSmart™ Buffer	10156433	**Pass**

Assay Name/Specification	Lot # 10163792
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 65ºC results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	**Pass**
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.	**Pass**
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	**Pass**

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Assay Name/Specification	Lot # 10163792
radioactivity.	

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
08 Sep 2022

Michael Tonello
Packaging Quality Control Inspector
08 Sep 2022