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New England Biolabs Certificate of Analysis

Product Name: Taql 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 Taql restriction endonuclease.

Lot Number: 10051832
Expiration Date: 04/2021
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

Taql Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0219SVIAL	Taql Methyltransferase	10038660	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10049759	Pass	
B7204SVIAL	CutSmart® Buffer	10043347	Pass	

Assay Name/Specification	Lot # 10051832
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 Taql Methyltransferase incubated for 16 hours at 65°C results in a DNA pattern free of detectable nuclease degradation 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 Taql Methyltransferase incubated for 4 hours at 65°C releases <0.1% of the total radioactivity.	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 Taql Methyltransferase incubated for 1 hour at 65°C followed by heat inactivation results in ≥ 95% protection from digestion with 10 units of Taql in CutSmart® Buffer incubated at 65°C for 15 minutes as determined by	Pass



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Assay Name/Specification	Lot # 10051832
agarose gel electrophoresis.	

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

Tim Meixsell Production Scientist

29 Mar 2019

Michael Tonello

Packaging Quality Control Inspector

31 Jul 2019