

## New England Biolabs Product Specification

*Product Name:* TaqI Methyltransferase  
*Catalog #:* M0219S/V  
*Concentration:* 10,000 units/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.  
*Shelf Life:* 24 months  
*Storage Temp:* -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/V v2.0  
*Effective Date:* 28 Aug 2024

Assay Name/Specification (minimum release criteria)
<p><b>Exonuclease Activity (Radioactivity Release)</b> - A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [<sup>3</sup>H] <i>E. coli</i> DNA and a minimum of 100 units of TaqI Methyltransferase incubated for 4 hours at 65°C releases &lt;0.1% of the total radioactivity.</p> <p><b>Non-Specific DNase Activity (16 Hour)</b> - 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>

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Date 28 Aug 2024

Lauren Brown  
Quality Approver

