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New England Biolabs Product Specification

Product Name:	CpG Methyltransferase (M.SssI)
Catalog #:	M0226S/L/V/X
Concentration:	4,000 units/ml
Unit Definition:	One unit is defined as the amount of enzyme required to protect 1 μ g of Lambda DNA in a total reaction volume of 20 μ l in 1 hour at 37°C against cleavage by BstUI restriction endonuclease.
Shelf Life:	12 months
Storage Temp:	-20°C
Storage Conditions:	10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, 200 μg/ml BSA, (pH 7.4 @ 25°C)
Specification Version:	<i>PS-M0226S/L/V/X v2.0</i>
Effective Date:	30 Aug 2024

Assay Name/Specification (minimum release criteria)

Endonuclease Activity (Nicking) - A 50 μ l reaction in NEBuffer 2 containing 1 μ g of supercoiled PhiX174 DNA and a minimum of 40 units of CpG Methyltransferase (M.SssI) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.

Exonuclease Activity (Radioactivity Release) - A 50 μ l reaction in NEBuffer 2 containing 1 μ g of a mixture of single and doublestranded [³H] *E. coli* DNA and a minimum of 40 units of CpG Methyltransferase (M.SssI) incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.

Non-Specific DNase Activity (16 Hour) - A 50 μ l reaction in NEBuffer 2 containing 1 μ g of Lambda DNA and a minimum of 40 units of CpG Methyltransferase (M.SssI) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

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Date 30 Aug 2024

Lauren Brown Quality Approver



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