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New England Biolabs Certificate of Analysis

Product Name:	AluI Methyltransferase
Catalog #:	M0220S
Concentration:	5,000 units/ml
Unit Definition:	One unit is defined as the amount of enzyme required to protect 1 μg Lambda DNA in 1 hour at 37°C in a total reaction volume of 10 μl against cleavage by AluI restriction endonuclease.
<i>Lot</i> #:	0081803
Assay Date:	03/2018
Expiration Date:	03/2020
Storage Temp:	-20°C
Storage Conditions:	10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 μ g/ml BSA , 50 % Glycerol, (pH 7.4 $@$ 25°C)
Specification Version:	PS-M0220S v1.0
Effective Date:	16 May 2018

Assay Name/Specification (minimum release criteria) Exonuclease Activity (Radioactivity Release) - A 50 μl reaction in NEBuffer 2 containing 1 μg of a mixture of single and double-stranded [³ H] <i>E. coli</i> DNA and a minimum of 50 units of AluI Methyltransferase 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 50 units of AluI Methyltransferase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass

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Authorized by Derek Robinson 16 May 2018



Timothy menpel

Inspected by Timothy Meixsell 02 Mar 2018