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New England Biolabs Certificate of Analysis

Product Name: Alul Methyltransferase

Catalog Number: M0220S
Concentration: 5,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to protect 1 µg

Lambda DNA in 1 hour at 37°C in a total reaction volume of 10 μl

against cleavage by Alul restriction endonuclease.

Packaging Lot Number:10065601Expiration Date:08/2021Storage Temperature:-20°C

Storage Conditions: 10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 µg/ml BSA

, 50 % Glycerol, (pH 7.4 @ 25°C)

Specification Version: PS-M0220S v1.0

Alul Methyltransferase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0220SVIAL	Alul Methyltransferase	10052774	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10070537	Pass	
B0220SVIAL	Alul Methyltransferase Reaction Buffer	10039366	Pass	

Assay Name/Specification	Lot # 10065601
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 50 units of Alul Methyltransferase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Functional Testing (Methyltransferase) A 10 μl reaction in Alul Methyltransferase Reaction Buffer supplemented with 80 μM SAM containing 1 μg of Lambda DNA and 1 unit of Alul Methyltransferase incubated for 1 hour at 37°C followed by heat inactivation results in ≥ 95% protection from digestion with 10 units of Alul in NEBuffer 1 with 10 mM MgCl2 incubated at 37°C for 30 minutes as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 2 containing 1 µg of Lambda DNA and a minimum of 50 units of Alul Methyltransferase incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel	Pass



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Assay Name/Specification	Lot # 10065601
electrophoresis.	

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

Timothy Meixsell Production Scientist

21 Jul 2020

Michael Tonello

Packaging Quality Control Inspector

21 Jul 2020

