

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

## 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: 10084144
Expiration Date: 03/2022
Storage 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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
M0220SVIAL	Alul Methyltransferase	10084145	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10079763	Pass	
B0220SVIAL	Alul Methyltransferase Reaction Buffer	10039366	Pass	

Assay Name/Specification	Lot # 10084144
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
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
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



M0220S / Lot: 10084144

Page 1 of 2

Assay Name/Specification	Lot # 10084144
electrophoresis.	

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

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Timothy Meixsell **Production Scientist** 

02 Oct 2020

Michael Tonello

Packaging Quality Control Inspector

02 Oct 2020