

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: 10106701
Expiration Date: 04/2023
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

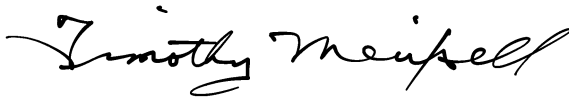
Alul Methyltransferase Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0220SVIAL	Alul Methyltransferase	10106702	Pass
B9003SVIAL	S-adenosylmethionine (SAM)	10113014	Pass
B0220SVIAL	Alul Methyltransferase Reaction Buffer	10108681	Pass

Assay Name/Specification	Lot # 10106701
<p>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.</p>	Pass
<p>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.</p>	Pass
<p>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</p>	Pass

Assay Name/Specification	Lot # 10106701
electrophoresis.	

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

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.



Timothy Meixsell
Production Scientist
13 Jul 2021



Michael Tonello
Packaging Quality Control Inspector
13 Jul 2021