

be INSPIRED *drive* DISCOVERY *stay* GENUINE

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.
Lot Number:	10016805
Expiration Date:	08/2020
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	10016774	Pass	
B9003SVIAL	S-adenosylmethionine (SAM)	10008707	Pass	
B0220SVIAL	Alul Methyltransferase Reaction Buffer	10016775	Pass	

Assay Name/Specification	Lot # 10016805
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 2 containing 1 µg of a mixture of single and double-stranded [³ H] 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 \ge 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 μ I reaction in NEBuffer 2 containing 1 μ g 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 # 10016805
electrophoresis.	

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

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Ben Penta Production Scientist 06 Jun 2018

Mary Imm m

Mary Conflon Packaging Quality Control Inspector 30 Jul 2018

