

New England Biolabs Certificate of Analysis

Product Name: AseI
Catalog Number: R0526M
Concentration: 50,000 U/ml
Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 µl.
Packaging Lot Number: 10064530
Expiration Date: 01/2022
Storage Temperature: -20°C
Storage Conditions: 500 mM KCl, 10 mM Tris-HCl (pH 7.4), 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 200 µg/ml BSA
Specification Version: PS-R0526M v1.0

AseI Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
R0526MVIAL	AseI	10064529	Pass
B7203SVIAL	NEBuffer™ 3.1	10053974	Pass

Assay Name/Specification	Lot # 10064530
<p>Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of Lambda DNA and a minimum of 100 Units of AseI incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.</p>	Pass
<p>Protein Purity Assay (SDS-PAGE) AseI is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	Pass
<p>Exonuclease Activity (Radioactivity Release) A 50 µl reaction in NEBuffer 3.1 containing 1 µg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 150 units of AseI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.</p>	Pass
<p>Ligation and Recutting (Terminal Integrity) After a 20-fold over-digestion of Lambda DNA with AseI, >95% of the DNA fragments can be ligated with T4 DNA ligase in 16 hours at 16°C. Of these ligated fragments, >95% can be recut with AseI.</p>	Pass

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



Pengda Zhang
Production Scientist
14 Jan 2020



Michael Tonello
Packaging Quality Control Inspector
11 Feb 2020