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New England Biolabs Certificate of Analysis

Product Name: Nt.Alwl
Catalog Number: R0627S
Concentration: 10,000 U/ml

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

of supercoiled pUC101 DNA (dam-/dcm-) to open circular form in 1

hour at 37°C in a total reaction volume of 50 μl.

Packaging Lot Number: 10233288
Expiration Date: 02/2026
Storage Temperature: -20°C

Storage Conditions: 50 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-R0627S/L v2.0

Nt.Alwl Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R0627SVIAL	Nt.Alwl	10226124	Pass	
B6004SVIAL	rCutSmart™ Buffer	10225675	Pass	

Assay Name/Specification	Lot # 10233288
Exonuclease Activity (Radioactivity Release) A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	Pass
double-stranded [³H] E. coli DNA and a minimum of 50 units of Nt.AlwI incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	
Non-Specific DNase Activity (16 hour)	Pass
A 50 μl reaction in CutSmart™ Buffer containing 1 μg of pUC101dam-dcm- DNA and a minimum of 10 units of Nt.Alwl incubated for 16 hours at 37°C results in a DNA	
pattern free of detectable nuclease degradation as determined by agarose gel	
electrophoresis. NOTE: although no nuclease degradation is detected under these conditions, extended incubations and/or high concentrations of this enzyme may	
result in star activity. See the product FAQ for recommended reaction conditions for	
this enzyme.	

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.



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Ana Egana Production Scientist 21 Feb 2024 Michael Tonello

Packaging Quality Control Inspector

21 Feb 2024

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