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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: 10107779
Expiration Date: 05/2023
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	10107778	Pass	
B6004SVIAL	rCutSmart™ Buffer	10105820	Pass	

Assay Name/Specification	Lot # 10107779
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.	
tills enzyme.	
Exonuclease Activity (Radioactivity Release)	Pass
A 50 µl reaction in CutSmart™ Buffer containing 1 µg of a mixture of single and	
double-stranded [3H] E. coli DNA and a minimum of 50 units of Nt.Alwl incubated for	
4 hours at 37°C releases <0.1% of the total radioactivity.	

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.



R0627S / Lot: 10107779

Penghua Zhang **Production Scientist** 04 May 2021

Josh Hersey Packaging Out 04 May 2021 ality Control Inspector

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