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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: 10203175
Expiration Date: 08/2025
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				
<b>NEB Part Number</b>	Component Description	Lot Number	Individual QC Result	
R0627SVIAL	Nt.Alwl	10200211	Pass	
B6004SVIAL	rCutSmart™ Buffer	10198644	Pass	

Assay Name/Specification	Lot # 10203175
Exonuclease Activity (Radioactivity Release) 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.	Pass
Non-Specific DNase Activity (16 hour) 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.	Pass

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

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R0627S / Lot: 10203175

Page 1 of 2

YunJie Sun

Production Scientist

NEW ENGLAND

18 Aug 2023

Michael Tonello

Packaging Quality Control Inspector

21 Aug 2023

R0627S / Lot: 10203175 Page 2 of 2