

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:	APE 1
Catalog Number:	M0282L
Concentration:	10,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to cleave 20 pmol of a 34 mer oligonucleotide duplex containing a single AP site in a total reaction volume of 10 μ l in 1 hour at 37°C.
Lot Number:	10008578
Expiration Date:	08/2020
Storage Temperature:	-20°C
Storage Conditions:	10 mM Tris-HCl, 50 mM NaCl, 1 mM DTT, 0.05 mM EDTA, 200 μg/ml BSA, 50% Glycerol, (pH 8.0 @ 25°C)
Specification Version:	PS-M0282S/L v1.0

APE 1 Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0282LVIAL	APE 1	0041802	Pass	
B7004SVIAL	NEBuffer™ 4	10012689	Pass	

Assay Name/Specification	Lot # 10008578
Endonuclease Activity (Nicking) A 50 µl reaction in NEBuffer 4 containing 1 µg of supercoiled PhiX174 DNA and a minimum of 50 units of APE 1 incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μ I reaction in NEBuffer 4 containing 1 μ g of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 50 units of APE 1 incubated for 4 hours at 37°C releases <0.5% of the total radioactivity.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in NEBuffer 4 containing 1 µg of Lambda-HindIII DNA and a minimum of 50 units of APE 1 incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) APE 1 is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass





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

for

Tony Spear-Alfonso Production Scientist 19 Jun 2018

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Michael Tonello Packaging Quality Control Inspector 08 Aug 2018

