

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:	5' Deadenylase
Catalog Number:	M0331S
Concentration:	50,000 U/ml
Unit Definition:	One unit is defined as the amount of enzyme required to remove 10 pmoles of AMP from a 5'adenylated DNA oligo in 10 minutes at 30°C.
Packaging Lot Number:	10121435
Expiration Date:	09/2023
Storage Temperature:	-20°C
Storage Conditions:	100 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 0.1% Triton®X-100, 50% Glycerol, (pH 7.5 @ 25°C)
Specification Version:	PS-M0331S v1.0

5' Deadenylase Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
M0331SVIAL	5' Deadenylase	10121433	Pass	
B7001SVIAL	NEBuffer™ 1	10111607	Pass	

Assay Name/Specification	Lot # 10121435
Exonuclease Activity (Radioactivity Release) A 50 μ I reaction in NEBuffer 1 containing 1 μ g of a mixture of single and double-stranded [³ H] E. coli DNA and a minimum of 150 units of 5' Deadenylase incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 μ I reaction in NEBuffer 1 containing 1 μ g of supercoiled PhiX174 RF I DNA and a minimum of 50 units of 5' Deadenylase incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Protein Purity Assay (SDS-PAGE) 5' Deadenylase is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of f-300 RNA transcript and a minimum of 50 units of 5' Deadenylase is incubated at 37°C. After incubation for 4 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass





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

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Bhairavi Jani Production Scientist 13 Oct 2021

Michae 111

Michael Tonello Packaging Quality Control Inspector 13 Oct 2021

