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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:	Diluent A (with rAlbumin)
Catalog Number:	B8532S
Concentration:	1 X Concentrate
Packaging Lot Number:	10208725
Expiration Date:	08/2026
Storage Temperature:	-20°C
Specification Version:	PS-B8532S v1.0
Composition (1X):	10 mM Tris-HCl , 50 mM KCl , 1 mM DTT , 0.1 mM EDTA , 200 μg/ml rAlbumin , 50 % Glycerol, (pH 7.4 @ 25°C)

Diluent A (with rAlbumin) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B8532SVIAL	Diluent A (with rAlbumin)	10201897	Pass	

Assay Name/Specification	Lot # 10208725
Endonuclease Activity (Nicking) A 50 µl reaction in rCutSmart [™] Buffer containing 1 µg of supercoiled PhiX174 DNA and a minimum of 10 µl of Diluent A (with rAlbumin) incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in rCutSmart [™] Buffer containing 1 µg of PhiX174-HaeIII DNA and a minimum of 10 µl of Diluent A (with rAlbumin) incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
RNase Activity (Extended Digestion) A 10 µl reaction in NEBuffer 4 containing 40 ng of a 300 base single-stranded RNA and a minimum of 1 µl of Diluent A (with rAlbumin) is incubated at 37°C. After incubation for 16 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass
pH (buffers/solutions) The pH of 1X Diluent A (with rAlbumin) is between pH 7.3 and 7.5 at 25°C.	Pass
qPCR DNA Contamination (E. coli Genomic)	Pass





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Assay Name/Specification	Lot # 10208725
A minimum of 1 μ I of Diluent A (with rAlbumin) is screened for the presence of E. coli genomic DNA using SYBR® Green qPCR with primers specific for the E. coli 16S rRNA locus. Results are quantified using a standard curve generated from purified E. coli genomic DNA. The measured level of E. coli genomic DNA contamination is \leq 1 E. coli genome.	

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.

Joney Common

Nancy Considine Production Scientist 04 Aug 2023

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Michael Tonello Packaging Quality Control Inspector 12 Sep 2023

