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New England Biolabs Certificate of Analysis

Product Name: Diluent C (with rAlbumin)

Catalog Number: B8534S

Concentration: 1 X Concentrate

Packaging Lot Number: 10240162
Expiration Date: 02/2027
Storage Temperature: -20°C

Specification Version: PS-B8534S v1.0

Composition (1X): 10 mM Tris-HCl, 250 mM NaCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol,

0.15 % Triton X-100, 200 μg/ml rAlbumin, (pH 7.4 @ 25°C)

Diluent C (with rAlbumin) Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
B8534SVIAL	Diluent C (with rAlbumin)	10240159	Pass	

Assay Name/Specification	Lot # 10240162
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 C (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 C (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 C (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 C (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 # 10240162
A minimum of 1 µl of Diluent C (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 ≤ 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.

Nancy Considine Production Scientist 03 May 2024

Many Consolour

Josh Hersey

Packaging Quality Control Inspector

06 May 2024



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