

New England Biolabs Certificate of Analysis

Product Name: Authenticase®
Catalog Number: M0689S
Packaging Lot Number: 10262140
Expiration Date: 08/2026
Storage Temperature: -20°C
Storage Conditions: 500 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)
Specification Version: PS-M0689S/L v1.0

Authenticase® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
M0689SVIAL	Authenticase®	10252810	Pass
B2832SVIAL	Authenticase™ Reaction Buffer	10197704	Pass
B2831SVIAL	Authenticase™ DNA Annealing Buffer	10203840	Pass

Assay Name/Specification	Lot # 10262140
Functional Testing (Authenticase®) A 20 µl reaction in 1X Authenticase® Reaction Buffer containing 0.33 pmol of 60-mer heteroduplex of A/C, T/G, and 2 bp InDel mismatches, respectively, and a minimum of 1 µl of Authenticase® is incubated at 42°C. After incubation for 30 minutes, >90% of the substrate DNA was digested 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 Authenticase® is incubated at 37°C. After incubation for 2 hours, >90% of the substrate RNA remains intact as determined by gel electrophoresis using fluorescent detection.	Pass

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

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Production Scientist
27 Aug 2024



Michael Tonello
Packaging Quality Control Inspector
16 Oct 2024