

New England Biolabs Certificate of Analysis

Product Name: Authenticase®
Catalog Number: M0689L
Packaging Lot Number: 10233221
Expiration Date: 03/2026
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
M0689LVIAL	Authenticase®	10233219	Pass
B2832SVIAL	Authenticase™ Reaction Buffer	10197704	Pass
B2831SVIAL	Authenticase™ DNA Annealing Buffer	10203840	Pass

Assay Name/Specification	Lot # 10233221
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.

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.



Jamie Souza
Production Scientist
27 Feb 2024



Josh Hersey
Packaging Quality Control Inspector
29 Feb 2024