

New England Biolabs Product Specification

<i>Product Name:</i>	<i>Authenticase[®]</i>
<i>Catalog #:</i>	<i>M0689S/L</i>
<i>Concentration:</i>	<i>1 reaction/μl</i>
<i>Shelf Life:</i>	<i>24 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Storage Conditions:</i>	<i>500 mM NaCl, 10 mM Tris-HCl, 1 mM DTT, 0.1 mM EDTA, 50 % Glycerol, (pH 7.4 @ 25°C)</i>
<i>Specification Version:</i>	<i>PS-M0689S/L v1.0</i>
<i>Effective Date:</i>	<i>12 Jul 2023</i>

Assay Name/Specification (minimum release criteria)

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.

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.

One or more products referenced in this document may be covered by a 3rd-party trademark.
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Date 12 Jul 2023

Lauren Brown
Quality Approver

