

## New England Biolabs Product Specification

**Product Name:** NEBExpress® Salt Active Nuclease

**Catalog #:** M0764S/L

**Concentration:** 100,000 units/ml

**Unit Definition:** One unit is defined as the amount of enzyme required to release 32 pmol of FAM from FAM-BHQ1 labeled hairpin oligonucleotide in 1 minute at 25°C in a 50 µl reaction in 25 mM Tris-HCl, 500 mM NaCl, 5 mM MgCl<sub>2</sub>, 0.005% Tween 20 (pH 8.5 @ 25°C).

**Shelf Life:** 24 months

**Storage Temp:** -20°C

**Storage Conditions:** 25 mM Tris-HCl, 500 mM NaCl, 5 mM MgCl<sub>2</sub>, 50% Glycerol, (pH 7.5 @ 25°C)

**Specification Version:** PS-M0764S/L v1.0

**Effective Date:** 25 Sep 2024

Assay Name/Specification (minimum release criteria)
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<p><b>Protease Activity (SDS-PAGE)</b> - A 20 µl reaction in 25 mM Tris-HCl, 500 mM NaCl, 5 mM MgCl<sub>2</sub> (pH 8.5 @ 25°C) containing 24 µg of a standard mixture of proteins and a minimum of 500 units of NEBExpress® Salt Active Nuclease incubated for 18 hours at 37°C, results in no detectable degradation of the protein mixture as determined by SDS-PAGE with Coomassie Blue detection.</p>
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<p><b>Protein Purity (Microfluidic Electrophoresis)</b> - NEBExpress® Salt Active Nuclease is ≥95% pure as determined by microfluidic electrophoresis.</p>
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Date 25 Sep 2024

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Quality Approver

