

## New England Biolabs Certificate of Analysis

Product Name: NEBExpress® GamS Nuclease Inhibitor  
 Catalog Number: P0774S  
 Concentration: 1.5 mg/ml  
 Packaging Lot Number: 10143435  
 Expiration Date: 02/2024  
 Storage Temperature: -20°C  
 Storage Conditions: 50 mM Tris-Acetate (pH 8.2 @ 25°C)  
 Specification Version: PS-P0774S v1.0

NEBExpress® GamS Nuclease Inhibitor Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0774SVIAL	NEBExpress® GamS Nuclease Inhibitor	10138667	Pass

Assay Name/Specification	Lot # 10143435
<p><b>Functional Testing (GamS, Inhibition)</b>            A 50 µl reaction in 1X NEBuffer 4 supplemented with 1 mM ATP containing 10 units of Exonuclease V (RecBCD) and a minimum of 0.2 µg of NEBExpress™ GamS Nuclease Inhibitor incubated for 30 minutes at 37°C results in ≥90% inhibition as determined by scintillation counting.</p>	Pass
<p><b>Protease Activity (Non-Specific, SDS-PAGE)</b>            A 20 µl reaction in 1X NEBuffer 4 supplemented with 1 mM ATP containing 24 µg of a standard mixture of proteins and a minimum of 2 µg of NEBExpress™ GamS Nuclease Inhibitor was incubated for 20 hours at 37°C. After incubation, no detectable degradation of the protein mixture was determined by SDS-PAGE with Coomassie Blue detection.</p>	Pass
<p><b>Protein Purity Assay (SDS-PAGE)</b>            NEBExpress™ GamS Nuclease Inhibitor is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.</p>	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](http://www.neb.com/trademarks) for additional information.

*Cory Tuckey*

Cory Tuckey  
Production Scientist  
10 Mar 2022

*Josh Hersey*

Josh Hersey  
Packaging Quality Control Inspector  
10 Mar 2022