

## New England Biolabs Certificate of Analysis

Product Name: NEBExpress® GamS Nuclease Inhibitor  
 Catalog Number: P0774S  
 Concentration: 1.5 mg/ml  
 Packaging Lot Number: 10096782  
 Expiration Date: 01/2023  
 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	10096781	Pass

Assay Name/Specification	Lot # 10096782
<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.	Pass
<b>Protein Purity Assay (SDS-PAGE)</b> NEBExpress™ GamS Nuclease Inhibitor is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
<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.	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.

*Coryna Tuckey*

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Cory Tuckey  
Production Scientist  
01 Feb 2021

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
01 Feb 2021