

New England Biolabs Certificate of Analysis

Product Name: *NEBExpress® GamS Nuclease Inhibitor*
 Catalog Number: *P0774S*
 Concentration: *1.5 mg/ml*
 Packaging Lot Number: *10173479*
 Expiration Date: *11/2024*
 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	10171413	Pass

Assay Name/Specification	Lot # 10173479
Protein Purity Assay (SDS-PAGE) NEBExpress™ GamS Nuclease Inhibitor is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.	Pass
Functional Testing (GamS, Inhibition) 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
Protease Activity (Non-Specific, SDS-PAGE) 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.

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Production Scientist
23 Nov 2022



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Packaging Quality Control Inspector
28 Nov 2022