

## New England Biolabs Product Specification

*Product Name:* NEBexpress™ GamS Nuclease Inhibitor  
*Catalog #:* P0774S  
*Concentration:* 1.5 mg/ml  
*Shelf Life:* 24 months  
*Storage Temp:* -20°C  
*Storage Conditions:* 50 mM Tris-Acetate (pH 8.2 @ 25°C)  
*Specification Version:* PS-P0774S v1.0  
*Effective Date:* 20 Nov 2019

### Assay Name/Specification (minimum release criteria)

**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.

**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.

**Protein Purity Assay (SDS-PAGE)** - NEBExpress™ GamS Nuclease Inhibitor is ≥ 95% pure as determined by SDS-PAGE analysis using Coomassie Blue detection.



Date 20 Nov 2019

Derek Robinson  
Director of Quality Control

