

## New England Biolabs Certificate of Analysis

Product Name: NEBExpress<sup>®</sup> Cell-Free *E. coli* Protein Synthesis System  
 Catalog Number: E5360S  
 Packaging Lot Number: 10203670  
 Expiration Date: 05/2025  
 Storage Temperature: -80°C  
 Specification Version: PS-E5360S/L v2.0

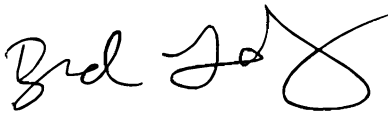
NEBExpress <sup>®</sup> Cell-Free <i>E. coli</i> Protein Synthesis System Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0864SVIAL	NEBExpress <sup>®</sup> S30 Synthesis Extract	10190568	Pass
N3273AVIAL	NEBExpress <sup>®</sup> Control DHFR-His Plasmid	10160271	Pass
M1019AVIAL	T7 RNA Polymerase	10190564	Pass
M1018AVIAL	RNase Inhibitor, Murine	10190563	Pass
B0864SVIAL	Protein Synthesis Buffer (2X)	10190567	Pass

Assay Name/Specification	Lot # 10203670
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in NEBExpress<sup>®</sup> Cell-Free <i>E. coli</i> Protein Synthesis System and meet the designated specifications.</p>	Pass
<p><b>Functional Testing (Cell-Free Protein Synthesis Assay) (DHFR)</b>            A 50 µl reaction in the presence of 250 ng NEBExpress<sup>®</sup> Control DHFR-His Plasmid containing the components of the NEBExpress<sup>®</sup> Cell-Free <i>E. coli</i> Protein Synthesis System incubated for 3 hours at 37°C results in the expected 20 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>	Pass
<p><b>Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, Fluorescence)</b>            A 50 µl reaction in the presence of 250 ng <i>E. coli</i> vGFP template DNA containing the components of the NEBExpress<sup>®</sup> Cell-Free <i>E. coli</i> Protein Synthesis System incubated for 5 hours at 37°C results in the expected product as determined by a fluorescence signal ≥ 2 times higher than the reference standard signal.</p>	Pass
<p><b>Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, SDS-PAGE)</b>            A 50 µl reaction in the presence of 250 ng <i>E. coli</i> vGFP template DNA containing the</p>	Pass

Assay Name/Specification	Lot # 10203670
components of the NEBExpress <sup>®</sup> Cell-Free E. coli Protein Synthesis System incubated for 3 hours at 37°C results in the expected 28 kDa product as determined by SDS-PAGE with Coomassie Blue detection.	

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.



Brad Landgraf  
Production Scientist  
27 May 2023



Nick Privitera  
Packaging Quality Control Inspector  
10 Aug 2023