

## New England Biolabs Certificate of Analysis

Product Name: NEBExpress<sup>®</sup> Cell-Free *E. coli* Protein Synthesis System  
 Catalog Number: E5360S  
 Packaging Lot Number: 10110074  
 Expiration Date: 05/2023  
 Storage Temperature: -80°C  
 Specification Version: PS-E5360S/L v2.0

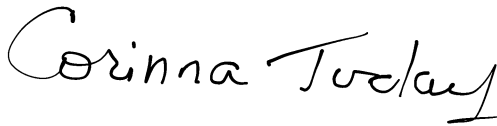
NEBExpress <sup>®</sup> Cell-Free <i>E. coli</i> Protein Synthesis System Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0864SVIAL	NEBExpress <sup>®</sup> S30 Synthesis Extract	10108831	Pass
N3273AVIAL	NEBExpress <sup>®</sup> Control DHFR-His Plasmid	10103266	Pass
M1019AVIAL	T7 RNA Polymerase	10108835	Pass
M1018AVIAL	RNase Inhibitor, Murine	10108832	Pass
B0864SVIAL	Protein Synthesis Buffer (2X)	10108830	Pass

Assay Name/Specification	Lot # 10110074
<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) (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, SDS-PAGE)</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 3 hours at 37°C results in the expected 28 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>	Pass
<p><b>* Individual Product Component Note</b></p>	Pass


Assay Name/Specification	Lot # 10110074
Standard Quality Control Tests are performed for each component included in NEBExpress <sup>®</sup> Cell-Free E. coli Protein Synthesis System and meet the designated specifications.	

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.



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01 Jun 2021



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01 Jun 2021