

## New England Biolabs Certificate of Analysis

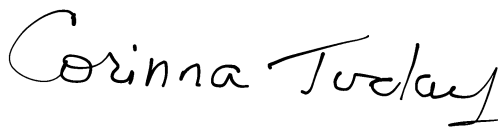
Product Name: *NEBExpress™ Cell-Free E. coli Protein Synthesis System*  
 Catalog Number: *E5360L*  
 Packaging Lot Number: *10060316*  
 Expiration Date: *12/2021*  
 Storage Temperature: *-80°C*  
 Specification Version: *PS-E5360S/L v1.0*

NEBExpress™ Cell-Free E. coli Protein Synthesis System Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0864SVIAL	NEBExpress™ S30 Synthesis Extract	10060317	Pass
N3273AVIAL	Control DHFR-His template	10060323	Pass
M1019AAVIAL	T7 RNA Polymerase	10060321	Pass
M1018AAVIAL	RNase Inhibitor, Murine	10060320	Pass
B0864SVIAL	Protein Synthesis Buffer (2X)	10060318	Pass

Assay Name/Specification	Lot # 10060316
<b>Functional Testing (Cell-Free Protein Synthesis Assay) (DHFR)</b> A 50 µl reaction in the presence of 250 ng E. coli DHFR template DNA containing the components of the NEBExpress™ Cell-Free E. coli 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.	Pass
<b>Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, Fluorescence)</b> A 50 µl reaction in the presence of 250 ng E. coli vGFP template DNA containing the components of the NEBExpress™ Cell-Free E. coli 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.	Pass
<b>Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, SDS-PAGE)</b> A 50 µl reaction in the presence of 250 ng E. coli vGFP template DNA containing the components of the NEBExpress™ 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.	Pass
<b>* Individual Product Component Note</b>	Pass

Assay Name/Specification	Lot # 10060316
Standard Quality Control Tests are performed for each component included in NEBExpress™ 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.



Cory Tuckey  
Production Scientist  
06 Dec 2019



Michael Tonello  
Packaging Quality Control Inspector  
16 Dec 2019