

New England Biolabs Certificate of Analysis

Product Name: NEBExpress[®] Cell-Free *E. coli* Protein Synthesis System
 Catalog Number: E5360S
 Packaging Lot Number: 10088318
 Expiration Date: 02/2022
 Storage Temperature: -80°C
 Specification Version: PS-E5360S/L v1.0

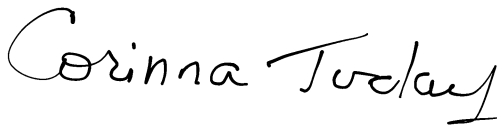
NEBExpress [®] Cell-Free <i>E. coli</i> Protein Synthesis System Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0864SVIAL	NEBExpress [®] S30 Synthesis Extract	10067072	Pass
N3273AVIAL	Control DHFR-His template	10060323	Pass
M1019AVIAL	T7 RNA Polymerase	10067070	Pass
M1018AVIAL	RNase Inhibitor, Murine	10067069	Pass
B0864SVIAL	Protein Synthesis Buffer (2X)	10067189	Pass

Assay Name/Specification	Lot # 10088318
<p>Functional Testing (Cell-Free Protein Synthesis Assay) (DHFR) A 50 µl reaction in the presence of 250 ng <i>E. coli</i> DHFR template DNA containing the components of the NEBExpress[™] 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>Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, Fluorescence) A 50 µl reaction in the presence of 250 ng <i>E. coli</i> vGFP template DNA containing the components of the NEBExpress[™] 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>Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, SDS-PAGE) A 50 µl reaction in the presence of 250 ng <i>E. coli</i> vGFP template DNA containing the components of the NEBExpress[™] 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

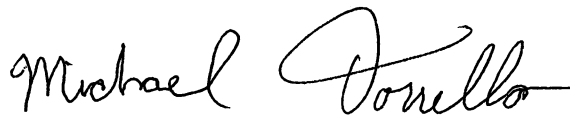
Assay Name/Specification	Lot # 10088318
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEBExpress™ Cell-Free E. coli Protein Synthesis System and meet the designated specifications.</p>	<p>Pass</p>

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 for additional information.



Cory Tuckey
Production Scientist
07 Dec 2020



Michael Tonello
Packaging Quality Control Inspector
07 Dec 2020