

New England Biolabs Certificate of Analysis

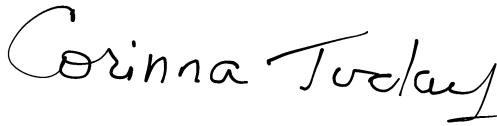
Product Name: NEBExpress[®] Cell-Free *E. coli* Protein Synthesis System
 Catalog Number: E5360S
 Packaging Lot Number: 10069541
 Expiration Date: 02/2022
 Storage Temperature: -80°C
 Specification Version: PS-E5360S/L v1.0

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 # 10069541
<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 # 10069541
* 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.	Pass

This product has been tested and shown to be in compliance with all specifications.



Cory Tuckey
Production Scientist
22 May 2020



Michael Tonello
Packaging Quality Control Inspector
22 May 2020