

New England Biolabs Certificate of Analysis

Product Name: NEBExpress[®] Cell-Free *E. coli* Protein Synthesis System
 Catalog Number: E5360L
 Packaging Lot Number: 10163753
 Expiration Date: 09/2024
 Storage Temperature: -80°C
 Specification Version: PS-E5360S/L v2.0

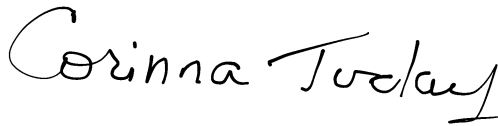
| NEBExpress [®] Cell-Free <i>E. coli</i> Protein Synthesis System Component List | | | |
|--|--|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| P0864SVIAL | NEBExpress [®] S30 Synthesis Extract | 10163741 | Pass |
| N3273AVIAL | NEBExpress [®] Control DHFR-His Plasmid | 10160271 | Pass |
| M1019AAVIAL | T7 RNA Polymerase | 10163745 | Pass |
| M1018AAVIAL | RNase Inhibitor, Murine | 10163743 | Pass |
| B0864SVIAL | Protein Synthesis Buffer (2X) | 10153856 | Pass |

| Assay Name/Specification | Lot # 10163753 |
|--|----------------|
| <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) (DHFR) A 50 µl reaction in the presence of 250 ng NEBExpress[®] Control DHFR-His Plasmid 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, 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 |
| <p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in</p> | Pass |

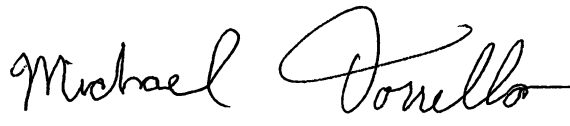
| Assay Name/Specification | Lot # 10163753 |
|--|----------------|
| NEBExpress [®] Cell-Free E. coli Protein Synthesis System and meet the designated specifications. | |

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

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
08 Sep 2022



Michael Tonello
Packaging Quality Control Inspector
08 Sep 2022