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New England Biolabs Certificate of Analysis

Product Name: NEBExpress® Cell-Free E. coli Protein Synthesis System

Catalog Number: E5360S
Packaging Lot Number: 10163752
Expiration Date: 09/2024
Storage Temperature: -80°C

Specification Version: PS-E5360S/L v2.0

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	10163741	Pass	
N3273AVIAL	NEBExpress® Control DHFR-His Plasmid	10160271	Pass	
M1019AVIAL	T7 RNA Polymerase	10163744	Pass	
M1018AVIAL	RNase Inhibitor, Murine	10163742	Pass	
B0864SVIAL	Protein Synthesis Buffer (2X)	10153856	Pass	

Assay Name/Specification	Lot # 10163752
Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, SDS-PAGE) 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
Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, Fluorescence) 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
* 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
Functional Testing (Cell-Free Protein Synthesis Assay) (DHFR) A 50 µl reaction in the presence of 250 ng NEBExpress® Control DHFR-His Plasmid	Pass



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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.

Ying Zhou Production Scientist

07 Sep 2022

Michael Tonello

Packaging Quality Control Inspector

13 Sep 2022

