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New England Biolabs Product Specification

Product Name: Catalog #:	NEBExpress® Cell-Free E. coli Protein Synthesis System E5360S/L
Kit Components:	NEBExpress® S30 Synthesis Extract (P0864) Protein Synthesis Buffer (2X) (B0864) RNase Inhibitor, Murine (M1018) T7 RNA Polymerase (M1019) NEBExpress® Control DHFR-His Plasmid (N3273)
Shelf Life:	24 months
Storage Temp:	-80°C
Specification Version: Effective Date:	PS-E5360S/L v2.0 25 Jan 2021

Assay Name/Specification (minimum release criteria)

Functional Testing (Cell-Free Protein Synthesis Assay) (DHFR) - A 50 μ l reaction in the presence of 250 ng NEBExpress® Control DHFR-His Plasmid 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.

Functional Testing (Cell-Free Protein Synthesis Assay) (vGFP, Fluorescence) - A 50 μ l 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.

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.

* 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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit <u>www.neb.com/trademarks</u> for additional information.

Date 25 Jan 2021

Derek Robinson Director, Quality Control



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