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Date

19 Jan 2021

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## New England Biolabs Product Specification

Product Name:  $PURExpress \otimes \Delta$  (aa, tRNA) Kit

Catalog #: E6840S

Kit Components: PURExpress® Solution A (-aa, tRNA) (B6841)

PURExpress® Control DHFR Plasmid (N0424)

PURExpress® E. coli tRNA (N6842)
PURExpress® Amino Acid Mix (N6843)
PURExpress® Solution B (P0760)

Shelf Life: 24 months
Storage Temp: -80°C

Specification Version: PS-E6840S v2.0
Effective Date: 19 Jan 2021

## Assay Name/Specification (minimum release criteria)

Functional Testing (Cell Free Protein Synthesis Assay) (DHFR) - A 25  $\mu$ l reaction in the presence of 250 ng PURExpress® Control DHFR Plasmid and 20 units RNase Inhibitor containing the components of the PURExpress®  $\Delta$  (aa, tRNA) Kit incubated for 2 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) (Vent DNA Polymerase) - A 25  $\mu$ l reaction in the presence of 250 ng Vent DNA Polymerase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress®  $\Delta$  (aa, tRNA) Kit incubated for 2 hours at 37°C results in the expected 89 kDa product as determined by SDS-PAGE with Coomassie Blue detection.

Functional Testing (Cell Free Protein Synthesis Assay) ( $\beta$ -galactosidase) - A 25  $\mu$ l reaction in the presence of 250 ng  $\beta$ -galactosidase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress®  $\Delta$  (aa, tRNA) Kit incubated for 2 hours at 37°C results in the expected 116 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 PURExpress® Δ (aa, tRNA) Kit and meet the designated specifications.

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Director, Quality Control





