

New England Biolabs Product Specification

Product Name: PURExpress[®] Δ (aa, tRNA) Kit
Catalog #: E6840S
Kit Components: PURExpress[®] Solution A (minus aa, tRNA) (B6841)
PURExpress[®] Control (DHFR) template (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 v1.0
Effective Date: 13 Jun 2018

Assay Name/Specification (minimum release criteria)

Functional Testing (Cell Free Protein Synthesis Assay) (DHFR) - A 25 μ l reaction in the presence of 250 ng *E. coli* DHFR template DNA and 20 units RNase Inhibitor containing the components of the PURExpress[®] Δ (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 μ l reaction in the presence of 250 ng Vent DNA Polymerase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress[®] Δ (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) (β -galactosidase) - A 25 μ l reaction in the presence of 250 ng β -galactosidase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress[®] Δ (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.



Date 13 Jun 2018

Derek Robinson
Director of Quality Control

