

New England Biolabs Product Specification

Product Name: PURExpress[®] Δ RF123 Kit
Catalog #: E6850S
Kit Components: PURExpress[®] Solution A (B0228)
PURExpress[®] Control DHFR Plasmid (N0424)
PURExpress[®] Solution B (minus RF123) (P6854)
PURExpress[®] RF1 (P6851)
PURExpress[®] RF2 (P6852)
PURExpress[®] RF3 (P6853)
Shelf Life: 24 months
Storage Temp: -80°C
Specification Version: PS-E6850S v2.0
Effective Date: 19 Jan 2021

Assay Name/Specification (minimum release criteria)

Functional Testing (Cell Free Protein Synthesis Assay) (DHFR) - A 25 µl reaction in the presence of 250 ng PURExpress[®] Control DHFR Plasmid and 20 units RNase Inhibitor containing the components of the PURExpress[®] Δ RF123 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 µl reaction in the presence of 250 ng Vent DNA Polymerase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress[®] Δ RF123 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 µl reaction in the presence of 250 ng β-galactosidase template DNA and 20 units RNase Inhibitor containing the components of the PURExpress[®] Δ RF123 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 RF123 Kit and meet the designated specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark.
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Date 19 Jan 2021

Derek Robinson
Director, Quality Control

