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New England Biolabs Product Specification

Product Name:	PURExpress® Disulfide Bond Enhancer
Catalog #:	E6820S
Kit Components:	PURExpress® Disulfide Bond Enhancer 1 (P6821)
	PURExpress® Disulfide Bond Enhancer 2 (B6822)

Shelf Life:	24 months
Storage Temp:	-20°C
Specification Version:	PS-E6820S v1.0
Effective Date:	22 Jun 2018

Assay Name/Specification (minimum release criteria)

Functional Testing (Cell-Free Protein Synthesis Assay, vTPA) - A 25 µl reaction in the presence of 250 ng vTPA (truncated tissue plasminogen activator) template plasmid DNA, 1 µl Enhancer 1, 1 µl Enhancer 2, and 20 units of RNase Inhibitor containing the components of the PURExpress® In Vitro Protein Synthesis Kit incubated for 2 hours at 37°C results in the expected 40 kDa product as determined by SDS-PAGE with Coomassie Blue detection.

Functional Testing (vTPA Activity Assay) - Five (5) μ l of PURExpress® vTPA protein synthesis reaction is incubated with 0.4 mM chromozym t-PA substrate in 100 mM Tris pH 8.0 and 0.15% Tween® 80 at 37°C for 1 hour. Absorbance readings at 405 nm are taken every 2 minutes in a kinetic assay. An increase in absorbance at 405 nm over time indicates the formation of 4-nitraniline as detected by spectrophotometric analysis.

Date 22 Jun 2018

Derek Robinson Director of Quality Control



PS-E6820S v1.0 Page 1 of 1