

## New England Biolabs Certificate of Analysis

**Product Name:** PURExpress® Disulfide Bond Enhancer  
**Catalog Number:** E6820S  
**Packaging Lot Number:** 10155202  
**Expiration Date:** 06/2024  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E6820S v1.0

PURExpress® Disulfide Bond Enhancer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P6821AVIAL	PURExpress® Disulfide Bond Enhancer 1	10153903	Pass
B6822AVIAL	Enhancer 2	10153904	Pass

Assay Name/Specification	Lot # 10155202
<b>Functional Testing (Cell-Free Protein Synthesis Assay, vTPA)</b> 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.	<b>Pass</b>
<b>Functional Testing (vTPA Activity Assay)</b> Five (5) µl 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.	<b>Pass</b>

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.

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16 Jun 2022

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