

## New England Biolabs Certificate of Analysis

Product Name: PURExpress<sup>®</sup> Disulfide Bond Enhancer  
 Catalog Number: E6820S  
 Packaging Lot Number: 10077782  
 Expiration Date: 07/2022  
 Storage Temperature: -20°C  
 Specification Version: PS-E6820S v1.0

PURExpress <sup>®</sup> Disulfide Bond Enhancer Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P6821AVIAL	PURExpress <sup>®</sup> Disulfide Bond Enhancer 1	10078237	Pass
B6822AVIAL	Enhancer 2	10078238	Pass

Assay Name/Specification	Lot # 10077782
<p><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<sup>®</sup> 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.</p>	Pass
<p><b>Functional Testing (vTPA Activity Assay)</b>            Five (5) µl of PURExpress<sup>®</sup> 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<sup>®</sup> 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.</p>	Pass

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

*Coryna Tuckey*

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Cory Tuckey  
Production Scientist  
10 Jul 2020

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
10 Jul 2020