

240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Certificate of Analysis

Product Name: PURExpress® Disulfide Bond Enhancer

Catalog Number: E6820S
Packaging Lot Number: 10209782
Expiration Date: 09/2025
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	10201196	Pass	
B6822AVIAL	Enhancer 2	10201219	Pass	

Assay Name/Specification	Lot # 10209782
Functional Testing (Cell-Free Protein Synthesis Assay, vTPA)	Pass
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)	Pass
Five (5) µI 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.	

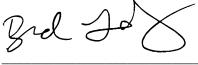
This product has been tested and shown to be in compliance with all specifications.

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



E6820S / Lot: 10209782

Page 1 of 2



Brad Landgraf Production Scientist 13 Sep 2023 Michael Tonello

Packaging Quality Control Inspector

21 Sep 2023