

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
Lot Number: 10016309
Expiration Date: 06/2020
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	10013579	Pass	
B6822AVIAL	Enhancer 2	10013595	Pass	

Assay Name/Specification	Lot # 10016309
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.



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Orinna Turkay

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Andreas Schalk Production Scientist 16 Jul 2018 Cory Tuckey
Packaging Quality Control Inspector

19 Jul 2018



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