

New England Biolabs Certificate of Analysis

Product Name: PURExpress[®] Disulfide Bond Enhancer
 Catalog Number: E6820S
 Packaging Lot Number: 10099511
 Expiration Date: 02/2023
 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 | 10099509 | Pass |
| B6822AVIAL | Enhancer 2 | 10099510 | Pass |

| Assay Name/Specification | Lot # 10099511 |
|---|----------------|
| <p>Functional Testing (vTPA Activity Assay) 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.</p> | Pass |
| <p>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.</p> | Pass |

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.

Coryna Tuckey

Cory Tuckey
Production Scientist
17 Feb 2021

Michael Tonello

Michael Tonello
Packaging Quality Control Inspector
17 Feb 2021