

## New England Biolabs Certificate of Analysis

Product Name: PURExpress<sup>®</sup> In Vitro Protein Synthesis Kit  
 Catalog Number: E6800S  
 Packaging Lot Number: 10122160  
 Expiration Date: 09/2023  
 Storage Temperature: -80°C  
 Specification Version: PS-E6800S/L v2.0

| PURExpress <sup>®</sup> In Vitro Protein Synthesis Kit Component List |                                    |            |                      |
|---|------------------------------------|------------|----------------------|
| NEB Part Number   | Component Description              | Lot Number | Individual QC Result |
| P0760AVIAL  | PURExpress <sup>®</sup> Solution B | 10121577   | Pass                 |
| N0424AVIAL  | PURExpress Control DHFR Plasmid    | 10103267   | Pass                 |
| B0228AVIAL  | PURExpress Solution A              | 10121576   | Pass                 |

| Assay Name/Specification  | Lot # 10122160 |
|---|----------------|
| <p><b>Functional Testing (Cell Free Protein Synthesis Assay) (DHFR)</b><br/>           A 25 µl reaction in the presence of 250 ng PURExpress<sup>®</sup> Control DHFR Plasmid and 20 units 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 20 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>     | Pass           |
| <p><b>* Individual Product Component Note</b><br/>           Standard Quality Control Tests are performed for each component included in PURExpress<sup>®</sup> In Vitro Protein Synthesis Kit and meet the designated specifications.</p>  | Pass           |
| <p><b>Functional Testing (Cell Free Protein Synthesis Assay) (--galactosidase)</b><br/>           A 25 µl reaction in the presence of 250 ng β-galactosidase template DNA and 20 units 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 116 kDa product as determined by SDS-PAGE with Coomassie Blue detection.</p>        | Pass           |
| <p><b>Functional Testing (Cell Free Protein Synthesis Assay) (Vent DNA Polymerase)</b><br/>           A 25 µl reaction in the presence of 250 ng Vent DNA Polymerase template DNA and 20 units 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 89 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](http://www.neb.com/trademarks) for additional information.

*Cory Tuckey*

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Cory Tuckey  
Production Scientist  
14 Sep 2021

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
14 Sep 2021