

## New England Biolabs Certificate of Analysis

Product Name: PURExpress<sup>®</sup> (aa, tRNA) Kit  
 Catalog Number: E6840S  
 Packaging Lot Number: 10082205  
 Expiration Date: 08/2022  
 Storage Temperature: -80°C  
 Specification Version: PS-E6840S v1.0

PURExpress <sup>®</sup> (aa, tRNA) Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P0760AVIAL	PURExpress <sup>®</sup> Solution B	10080809	Pass
N6843AVIAL	Amino Acid Mix	10080808	Pass
N6842AVIAL	PURExpress <sup>®</sup> tRNA Mix	10080807	Pass
N0424AVIAL	Control (DHFR) template	10076886	Pass
B6841AVIAL	PURExpress <sup>®</sup> delta aa, tRNA	10080806	Pass

Assay Name/Specification	Lot # 10082205
<p><b>Functional Testing (Cell Free Protein Synthesis Assay) (DHFR)</b>            A 25 µl reaction in the presence of 250 ng E. coli DHFR template DNA and 20 units RNase Inhibitor containing the components of the PURExpress<sup>®</sup> Δ (aa, tRNA) 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>Functional Testing (Cell Free Protein Synthesis Assay) (Vent DNA Polymerase)</b>            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> Δ (aa, tRNA) 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
<p><b>Functional Testing (Cell Free Protein Synthesis Assay) (--galactosidase)</b>            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> Δ (aa, tRNA) 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>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in PURExpress<sup>®</sup> Δ (aa, tRNA) Kit and meet the designated specifications.</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  
12 Aug 2020

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
12 Aug 2020