

## New England Biolabs Certificate of Analysis

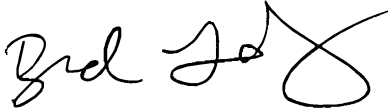
Product Name: PURExpress<sup>®</sup> (aa, tRNA) Kit  
 Catalog Number: E6840S  
 Packaging Lot Number: 10216310  
 Expiration Date: 06/2025  
 Storage Temperature: -80°C  
 Specification Version: PS-E6840S v2.0

PURExpress <sup>®</sup> (aa, tRNA) Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
P6840AVIAL	PURExpress Sol B, E6840	10191392	Pass
N6843AVIAL	Amino Acid Mix	10191390	Pass
N6842AVIAL	PURExpress <sup>®</sup> tRNA Mix	10191389	Pass
N0424AVIAL	PURExpress Control DHFR Plasmid	10170242	Pass
B6841AVIAL	PURExpress <sup>®</sup> delta aa, tRNA	10191391	Pass

Assay Name/Specification	Lot # 10216310
<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
<p><b>Functional Testing (Cell Free Protein Synthesis Assay) (DHFR)</b>            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> 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

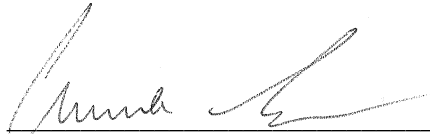
This product has been tested and shown to be in compliance with all specifications.

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.



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Brad Landgraf  
Production Scientist  
06 Jun 2023



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Anna Sorensen  
Packaging Quality Control Inspector  
06 Nov 2023