

# PURExpress® $\Delta$ (aa, tRNA) Kit



1-800-632-7799  
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E6840S 010140516051

## E6840S

**10 reactions**    **Lot: 0101405**    **Exp: 5/16**

**Store at -80°C**

### Kit Components:

Solution A (minus aa and tRNA)	50 $\mu$ l
Solution B	75 $\mu$ l
Amino Acid Mixture	25 $\mu$ l (3 mM each)
<i>E. coli</i> tRNA	25 $\mu$ l (20 $\mu$ g/ $\mu$ l)
DHFR Control Template	10 $\mu$ l (125 ng/ $\mu$ l)

Each kit contains sufficient reagents for 10 x 25  $\mu$ l reactions.

The amino acids and tRNA are supplied separately, allowing users to perform a protein synthesis reaction by adding modified amino acids and tRNA mixture to the reaction.

### Protocol

#### Standard Reaction for PURExpress $\Delta$ (aa, tRNA) Kit:

Assemble the reaction in a new tube in the following order:

Solution A (minus aa, tRNA)	5 $\mu$ l
aa Mixture	2.5 $\mu$ l
tRNA	2.5 $\mu$ l
Solution B	7.5 $\mu$ l
Supplements (RNase Inhibitor, <sup>35</sup> S-met, etc.)	x $\mu$ l
Nuclease-free H <sub>2</sub> O	x $\mu$ l
Template DNA	x $\mu$ l
Total	25 $\mu$ l

Incubate at 37°C for at least 2 hours. Additional incubation time (maximum 4 hours) at 37°C may increase yield.

### Usage Notes:

For a positive control reaction, use 2  $\mu$ l of the supplied DHFR control template and 2.5  $\mu$ l each of the supplied aa and tRNA.

For detailed usage information please refer to the product manual which is also available online at: <http://www.neb.com/nebecomm/ManualFiles/manualE6800.pdf>

Additional product information including FAQ's can be found on website. <http://www.neb.com/nebecomm/products/productE6840.asp>

### Companion Products Sold Separately:

PURExpress <i>In Vitro</i> Protein Synthesis Kit #E6800S	10 reactions
#E6800L	100 reactions
PURExpress $\Delta$ Ribosome Kit #E3313S	10 reactions
PURExpress $\Delta$ RF123 Kit #E6850S	10 reactions
PURExpress Disulfide Bond Enhancer #E6820S	50 reactions
<i>E. coli</i> Ribosome #P0763S	1 mg



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PURExpress® is based on the PURE System Technology originally developed by Dr. Takuya Ueda at the University of Tokyo and commercialized as the PURESYSYSTEM® by BioComber (Tokyo, Japan).

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CERTIFICATE OF ANALYSIS

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