

PURExpress® Δ (aa, tRNA) Kit



1-800-632-7799
info@neb.com
www.neb.com



E6840S 011141116111

E6840S

10 reactions **Lot: 0111411** **Exp: 11/16**

Store at -80°C

Kit Components:

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

Each kit contains sufficient reagents for 10 x 25 μ 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 Δ (aa, tRNA) Kit:

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

Solution A (minus aa, tRNA)	5 μ l
aa Mixture	2.5 μ l
tRNA	2.5 μ l
Solution B	7.5 μ l
Supplements (RNase Inhibitor, ³⁵ S-met, etc.)	x μ l
Nuclease-free H ₂ O	x μ l
Template DNA	x μ l
Total	25 μ 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 μ l of the supplied DHFR control template and 2.5 μ 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 Δ Ribosome Kit #E3313S	10 reactions
PURExpress Δ RF123 Kit #E6850S	10 reactions
PURExpress Disulfide Bond Enhancer #E6820S	50 reactions
<i>E. coli</i> Ribosome #P0763S	1 mg



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

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).

Licensed from BioComber (Tokyo, Japan) under Patent Nos. 7,118,883; 8,603,775 and JP2006-340694. For research use only. Commercial use of PURExpress® Δ (aa, tRNA) Kit requires a license from New England Biolabs, Inc.

CERTIFICATE OF ANALYSIS

PURExpress® Δ (aa, tRNA) Kit



1-800-632-7799
info@neb.com
www.neb.com



E6840S 011141116111

E6840S

10 reactions **Lot: 0111411** **Exp: 11/16**

Store at -80°C

Kit Components:

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

Each kit contains sufficient reagents for 10 x 25 μ 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 Δ (aa, tRNA) Kit:

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

Solution A (minus aa, tRNA)	5 μ l
aa Mixture	2.5 μ l
tRNA	2.5 μ l
Solution B	7.5 μ l
Supplements (RNase Inhibitor, ³⁵ S-met, etc.)	x μ l
Nuclease-free H ₂ O	x μ l
Template DNA	x μ l
Total	25 μ 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 μ l of the supplied DHFR control template and 2.5 μ 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 Δ Ribosome Kit #E3313S	10 reactions
PURExpress Δ RF123 Kit #E6850S	10 reactions
PURExpress Disulfide Bond Enhancer #E6820S	50 reactions
<i>E. coli</i> Ribosome #P0763S	1 mg



NEW ENGLAND BIOLABS® is a registered trademark of New England Biolabs, Inc.

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).

Licensed from BioComber (Tokyo, Japan) under Patent Nos. 7,118,883; 8,603,775 and JP2006-340694. For research use only. Commercial use of PURExpress® Δ (aa, tRNA) Kit requires a license from New England Biolabs, Inc.

CERTIFICATE OF ANALYSIS