

PURExpress®
In Vitro Protein
Synthesis Kit



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



E6800S 016141216121

E6800S

10 reactions Lot: 0161412 Exp: 12/16

Store at -80°C

Kit Components:

Solution A	100 µl
Solution B	75 µl
DHFR Control Template	10 µl (125 ng/µl)

Each kit contains sufficient reagents for 10 x 25 µl reactions.

Protocol

Standard Reaction for PURExpress *In Vitro* Protein Synthesis Kit:

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

Solution A	10 µl
Solution B	7.5 µl
Supplements (RNase Inhibitor, ³⁵ S-met, etc.)	x µl
Nuclease-free H ₂ O	x µl
Template DNA	x µl
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	25 µl total

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

Usage Notes:

The DHFR control template is supplied at 125 ng/µl. Use 2 µl for the positive control reaction. Template DNA, particularly plasmid DNA prepared by mini-prep (e.g. Qiagen) is often the major source of RNase contamination. We strongly recommend adding 20 units Murine RNase Inhibitor (NEB #M0314) to each reaction.

Add Solution B to Solution A, do not dilute Solution B unbuffered. We recommend a starting concentration of 250 ng template DNA per 25 µl reaction. The optimal amount of input DNA can be determined by setting up multiple reactions and titrating the amount of template DNA added to the reaction. Typically, the optimal amount will fall in a range of 25–1,000 ng template per 25 µl reaction.

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

Additional product information including protocol changes and FAQ's can be found on our website <http://www.neb.com/nebecomm/products/productE6800.asp>

Companion Products Sold Separately:

PURExpress Δ Ribosome Kit #E3313S	10 reactions
PURExpress Δ (aa, tRNA) Kit #E6840S	10 reactions
PURExpress Δ 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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