TNT® Coupled Wheat Germ Extract Systems

INSTRUCTIONS FOR USE OF PRODUCTS L4120, L4130, L4140, L5030 AND L5040.

Translation Procedure

Before You Begin

Upon removal from storage at -70°C, immediately place TNT® RNA Polymerase on ice. Rapidly thaw the TNT® Wheat Germ Extract by hand and place on ice. Thaw all other components at room temperature and store on ice.

Preparation of Template

The template should be free of ethanol, calcium, RNase and salt. DNA from the Wizard[®] Plus Minipreps DNA Purification System, the Wizard[®] PCR Preps System or the standard alkaline lysate method (Sambrook et al.) will work with TNT[®] reactions.

Translation Procedure

1. Assemble the reaction components, appropriate for the label being used, in a 0.5ml microcentrifuge tube. Gently mix by pipetting or stirring with pipette tip and, if necessary, centrifuge briefly.

| Component | Standard Reaction Using [³⁵ S]methionine |
|--|--|
| TNT® Wheat Germ Extract | 25µl |
| TNT® Reaction Buffer | 2µI |
| TNT® RNA Polymerase (SP6, T3 or T7) | 1µI |
| Amino Acid Mixture, Minus Methionine, 1mM | 1µI |
| [³⁵ S]methionine (1,000Ci/mmol at 10mCi/ml)* | 2—4µI |
| RNasin [®] Ribonuclease Inhibitor (40u/µl) | 1µI |
| DNA Template (0.5µg/µl) | 2µI |
| Nuclease-Free Water to a final volume of | 50µl |

- 2. Incubate the translation reaction at 30°C for 60–120 minutes.
- 3. Analyze the results of translation. For procedures for incorporation assays, gel analysis of translation products and an assay for luciferase production in the control reactions, please refer to the *TNT*[®] *Wheat Germ Extract System* Technical Bulletin #TB165.

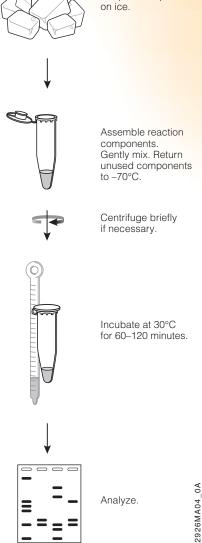


ORDERING/TECHNICAL INFORMATION:

www.promega.com • Phone 608-274-4330 or 800-356-9526 • Fax 608-277-2601

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Keep all components

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Quick OL

Translation Procedure

Notes

 We recommend using PerkinElmer EasyTag[™] L-[³⁵S]methionine (PerkinElmer Cat.# NEG709A). This grade of [³⁵S]methionine does not cause the background labeling of the rabbit reticulocyte lysate 42kDa protein that can occur using other grades of label. In addition, a stabilizer has been added to this product to increase the stability over conventional radiolabeled amino acids, so that the release of volatile gases is reduced substantially. This [³⁵S]methionine may be stored at 4°C without aliquoting. Other types of ³⁵S-labeled amino acids may be oxidized easily to translation-inhibiting sulfoxides and should be stored in aliquots at -70°C in buffer containing 0.1% DTT.

For additional protocol information see Technical Bulletin #TB165, available online at www.promega.com

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