

# CDP-Star<sup>®</sup> Reagent



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



N7001S 006121114111

## N7001S

**2.5 ml**      **Lot: 0061211**      **Exp: 11/14**  
**25 mM**      **Store at 4°C**

**Description:** CDP-Star Reagent is a 1,2-dioxetane compound utilized in Phototope<sup>®</sup> alkaline phosphatase-based chemiluminescent detection assays. CDP-Star Reagent produces a light signal when it is activated by alkaline phosphatase, accumulates in its dephosphorylated form and decomposes at a constant rate for up to several days. When assayed on nylon membrane at 1:100 in the buffer provided, CDP-Star signals reach a maximum within 15 minutes and decay slowly over 3 days. Typical film exposure times range from 15 seconds to 15 minutes.

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### Reagents Supplied:

25X CDP-Star Dilution Buffer:  
2.5 M 2-amino-2-methyl-1-propanol  
20 mM MgCl<sub>2</sub>  
pH 9.5 @ 25°C

CDP-Star Reagent:  
2.5 ml of a 25 mM solution

### Reaction Conditions

Detection of alkaline phosphatase on membranes as follows:

1. Wash membrane-bound alkaline phosphatase (biotin or antibody conjugate) in 10 mM Tris-HCl, 10 mM NaCl, 1 mM MgCl<sub>2</sub> (pH 9.5).
2. Dilute CDP-Star Reagent 1:100 to 1:500 in 1X CDP-Star Dilution Buffer (0.025–0.1 ml/cm<sup>2</sup>) and incubate with membrane for 5 minutes at room temperature.
3. Remove excess solution (do not allow membrane to dry), wrap in plastic or reseal hybridization bag and expose to X-ray film.

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### Preparation of Solutions

Use only Milli-Q<sup>™</sup> or equivalent water.

Phototope<sup>®</sup> is a registered trademark of Cell Signaling Technologies, Inc.

CDP-Star<sup>®</sup> is a registered trademark of Tropix, Inc  
Milli-Q<sup>™</sup> is trademark of Millipore, Inc.

U.S. Patent Nos. 5,326,882; 4,931,569

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