

CDP-Star[®] Reagent



1-800-632-7799
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N7001S 006120814081

N7001S

2.5 ml **Lot: 0061208** **Exp: 8/14**
25 mM **Store at 4°C**

Description: CDP-Star Reagent is a 1,2-dioxetane compound utilized in Phototope[®] 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 MgCl₂
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 MgCl₂ (pH 9.5).
2. Dilute CDP-Star Reagent 1:100 to 1:500 in 1X CDP-Star Dilution Buffer (0.025–0.1 ml/cm²) 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[™] or equivalent water.

Phototope[®] is a registered trademark of Cell Signaling Technologies, Inc.

CDP-Star[®] is a registered trademark of Tropix, Inc
Milli-Q[™] is trademark of Millipore, Inc.

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

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CERTIFICATE OF ANALYSIS

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