

Product Datasheet

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AP Magenta 3 Component Membrane Substrate

Prod. No.: A327

Pkg. Size: 400 ml, 1 L

Storage: 2 – 8°C *Detailed storage instructions below.*

Description

Leinco's AP Magenta 3 Component Membrane Substrate is a precipitating substrate used with the enzyme alkaline phosphatase designed for membrane blotting procedures. The TAC Buffer coupled with a substitute, naphthol, is enzymatically hydrolyzed. In the presence of hexazotized substrate, a fine magenta precipitate is produced at the sites of alkaline phosphatase activity.

Components

- | | | |
|---|---|-----------------------|
| 1) TAC Buffer (Modified Gormori's Tris Azo-Coupling Buffer) | - | 4 x 100 ml or 1 x 1 L |
| 2) Initiator (Hexa-azonium salt initiator) | - | 1 x 8 ml or 1 x 20 ml |
| 3) Magenta Solution | - | 1 x 8 ml or 1 x 20 ml |

Directions for Product Use

- 1) Add 2 drops, or 100 µl, of Magenta Solution into an appropriate sized test tube or collection vessel.
- 2) Add 2 drops, or 100 µl, of Initiator Solution to the 100 µl of Magenta Solution in step one. Gently mix and allow solution to sit for 3 to 5 minutes.
- 3) After the 3 to 5 minute incubation, add 5 ml of TAC Buffer and mix. **USE IMMEDIATELY! (NOTE: Reagent is stable for up to one hour. Some color and turbidity may develop over this time frame. However, this does not affect product performance.)**
- 4) Apply sufficient substrate solution to cover the membrane completely.
- 5) Incubate samples 10 minutes to 60 minutes, at room temperature, depending on individual preferences of staining intensity.

Sites of enzymatic activity vary from pink to magenta depending in antigenicity and length of staining. Dilution of substrate is not recommended. To reduce the intensity of the reaction, it is recommended that antibodies or conjugates be diluted.

Storage and Stability

The high quality of this substrate can be preserved by storing at temperatures between 2 – 8°C. When properly stored, AP Magenta 3 Component Substrate is stable for a minimum of 18 months from the manufactured date.

Reported Applications

AP Magenta 3 Component Membrane Substrate is suitable for use in Western Blotting.



Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Related Products

UltraAvidin™-Alk. Phos. ([Leinco Prod. No.: A108](#))

Streptavidin- Alk. Phos. ([Leinco Prod. No.: S208](#))

Goat Anti-Mouse IgG (H&L)- Alk. Phos. ([Leinco Prod. No.: M290](#))

Goat Anti-Human IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: H627](#))

Goat Anti-Rat IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: R1216](#))

Goat Anti-Rabbit IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: R1191](#))

Goat Anti-Armenian Hamster IgG (H&L)-Alk. Phos. ([Leinco Prod. No.: A130](#))

[TMB Membrane & IHC Group](#)

Trouble Shooting Guide

Problem	Cause	Solution
Too much background signal observed on membrane	AP Magenta substrate was left on the membrane too long	Decrease the amount of time the AP Magenta substrate is on the membrane
	Too much primary antibody used	Decrease the amount of primary antibody used and wash membrane well after the primary antibody incubation
	Too much secondary antibody used	Decrease the amount of secondary antibody used
Nonspecific bands show up on the membrane	Too much primary antibody used	Decrease the amount of primary antibody used and wash membrane well after the primary antibody incubation
	Too much secondary antibody used	Decrease the amount of secondary antibody used
Signal disappears from membrane	Membrane not stored correctly	Store the membrane in the dark in High Purity Water
No signal is observed on the membrane	Low amounts of specific protein present	Expose the membrane to AP Magenta substrate for a longer period of time. Include positive control(s) during analysis
	Insufficient primary antibody used	Use more primary antibody
	Insufficient secondary antibody used	Use more secondary antibody
	Protein degraded into fragments	Add protease inhibitors to original sample before running a gel

Country of Origin

USA



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