

Antifade Mounting Medium with Hoechst 33342 and PI

Introduction

Antifade Mounting Medium with Hoechst 33342 and PI is a ready-to-use mounting solution containing two fluorescent nuclear dyes (Hoechst 33342 and PI). This dual-purpose reagent not only minimizes photobleaching in immunofluorescence experiments but also enables simultaneous nuclear staining during the mounting step. Hoechst 33342 penetrates and stains all cells, while PI enters and stains only necrotic cells with compromised membranes.

Simply apply one drop to the sample and cover with a coverslip. At a typical volume of 50 μ L per sample, the 25 mL package is sufficient for approximately 500 tests.

Storage

Store at -20°C protected from light, stable for 1 year.

Protocol

1. For adherent cells

- 1) After staining, aspirate the liquid.
- 2) Place a drop of Antifade Mounting Medium with Hoechst 33342 and PI onto a glass slide, and carefully lower the cell-bearing coverslip onto the drop, ensuring contact between the cells and the mounting medium. Be careful to avoid bubbles as much as possible.
- 3) The sample is now ready for observation under a fluorescence microscope. Hoechst 33342 is detected at Ex/Em = 350/461 nm, and PI is detected at Ex/Em = 535/615 nm.

2. For tissue sections

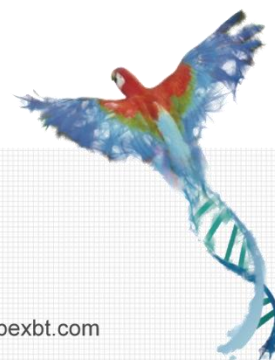
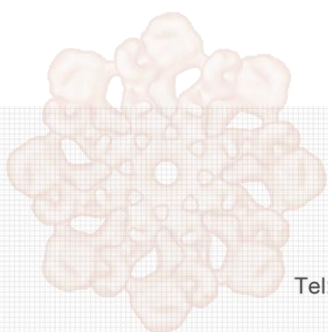
- 1) After staining, aspirate the liquid.
- 2) Apply a drop of Antifade Mounting Medium with Hoechst 33342 and PI directly onto the tissue section, and gently place a coverslip on top. Ensure the section is in contact with the mounting medium. Be careful to avoid bubbles as much as possible.
- 3) The sample is now ready for observation under a fluorescence microscope. Hoechst 33342 is detected at

Ex/Em = 350/461 nm, and PI is detected at Ex/Em = 535/615 nm.

***Note:** For other sample types, refer to the procedure for cells or tissue sections.

Note

1. For optimal results, perform detection within 20-30 min after staining.
2. Although this product reduces photobleaching, it is still recommended to store mounted samples protected from light.
3. PI is an irritant. Take appropriate precautions when handling.
4. For your safety and health, please wear lab coats and gloves during the experiment.
5. For research use only. Not to be used in clinical diagnostic or clinical trials.



APEx BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com