Hoechst 33258 solution

E37F17520

I. Product introduction：

Hoechst 33258 is a nuclear staining reagent that can penetrate the cell membrane and stain DNA. It releases strong blue fluorescence after embedding double stranded DNA. Hoechst 33258 is commonly used to detect apoptosis. After staining, it is observed by fluorescence microscope or flow cytometry. The excitation and emission wavelengths of Hoechst 33258-DNA were 350 nm and 460 nm, respectively.

II. Product Composition：

Catalog Number	Components	Package	Storage Conditions
E37F17520	Hoechst 33258 solution (0.1mM)	50ml	-20℃

Instructions for use：

1. For fixed cells or tissues:

1) For cell or tissue samples: After fixation, wash properly to remove the fixative. Then, if immunofluorescence staining is required, immunofluorescence staining shall be carried out first, and Hoechst 33258 staining shall be carried out according to the subsequent steps after IF staining. If no other staining is required, Hoechst 33258 staining is directly performed.

2) For adherent cells or tissue sections: Add a small amount of Hoechst 33258 staining solution and cover the sample. For suspended cells, add at least 3 times the volume of the sample to be stained and mix well. Leave at room temperature for 3-5 minutes.

3) Suck Hoechst 33258 staining solution and wash it with TBST, PBS or Normal Saline for 2-3 times for 3-5 minutes each time.

4) Observe directly after sealing with the fluorescence microscope .When observing apoptosis, we can see that the nuclei of apoptotic cells are densely stained or fragmented.

2. For living cells or tissues:

1) When adding an appropriate amount of Hoechst 33258 solution, the sample to be dyed must be fully covered. Generally, 1ml staining solution shall be added to one hole of six well plate and 100 μ l staining solution shall be added to one hole of 96 well plate.

2) Incubate at a suitable temperature for cell for 20-30 minutes. Discard the staining solution and wash it with PBS or culture solution for 2-3 times,then observe with the fluorescence microscope.

III. Storage conditions：stored in the dark at -20℃ and valid for one year.

IV. Notes

1. Hoechst 33258 has certain irritation to human body. Please pay attention to protection.
2. Fluorescent dyes have the problem of quenching. It is recommended to complete the test in the same day after dyeing.
3. In order to slow down fluorescence quenching, anti-fluorescence quenching sealing liquid can be used.
4. For your safety and health, please wear experimental clothes and disposable gloves.

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