Store at -20C

Hoechst 33342



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Applications:

25 ma

IF-IC, FC-FP

Description Hoechst 33342 (bisBenzimide H33342 trihydrochloride) is supplied as a lyophilized powder in 25 mg

units. It can be used to examine cellular DNA in most fluorescent applications.

Background Hoechst 33342 is a specific fluorescent DNA stain that binds within the minor groove of double-

stranded AT-rich regions. This stain can be used on both live and fixed cells (1).

Fluorescent Properties Free dye excitation maximum = 340 nm

Free dye emission maximum = 510 nm

DNA complex excitation maximum = 355 nm DNA complex emission maximum = 465 nm

Molecular Formula

C₂₇H₂₈N₆O 3(HCl) 3(H₂O)

Storage

The lyophilized powder is stable for 1 year if kept below 0°C with desiccant. Aqueous solutions are

stable for at least 1 month if kept in the dark between 2-8°C.

Directions for Use

This product is soluble up to 50 mg/ml in deionized water or dimethylformamide yielding a clear yellow solution. Heating and/or sonication may be required. For standard fluorescence based assays, Hoechst 33342 stock solutions should be diluted in phosphate-buffered saline or mounting medium to a final

working concentration of 1 μg/ml.

Background References

1. Portugal, J. and Waring, M.J. (1988) Biochim Biophys Acta 949, 158-68.

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

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