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Hoechst 33342 Ready Stain for Flow Cytometry

http://hk.lumiprobe.com/p/hoechst-33342-ready-stain

Hoechst 33342 (bisbenzimide, HOE 33342) is a cell-permeant blue-emitting fluorescent dye that binds strongly to adenine-thymine-rich regions in the minor groove of double-stranded DNA. Although Hoechst 33342 can bind to all nucleic acids, AT-rich dsDNA strands enhance its fluorescence considerably.

Hoechst 33342 bound with DNA has excitation/emission maxima at 351/461 nm, respectively. The fluorescence intensity of Hoechst 33342 increases with the pH of the solvent. The unbound dye fluoresces in the 510–540 nm range. The green fluorescence of unbound dye may be observed when an excessive dye concentration is used or the sample is insufficiently washed out.

Hoechst 33342 is used extensively in flow cytometry for staining chromosomes and nuclei in live and fixed cells. The dye is often used to distinguish condensed pycnotic nuclei in apoptotic cells and cell sorting. Hoechst 33342 is less toxic than DAPI, which ensures a higher viability of stained cells.

Hoechst 33342 is quenched by bromodeoxyuridine (BrdU), commonly used to detect dividing cells. When BrdU is integrated into DNA, the bromine is supposed to deform the minor groove so that Hoechst dyes cannot reach their optimal binding site. This property of Hoechst 33342 is used to study cell-cycle progression.

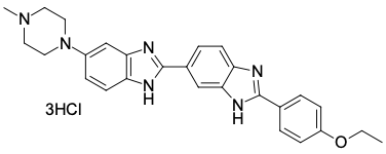
This product is a ready-to-use Hoechst solution for flow cytometry. We also offer Hoechst 33342 as a powder (1H010) and a concentrated 10 mg/mL solution (2G010).

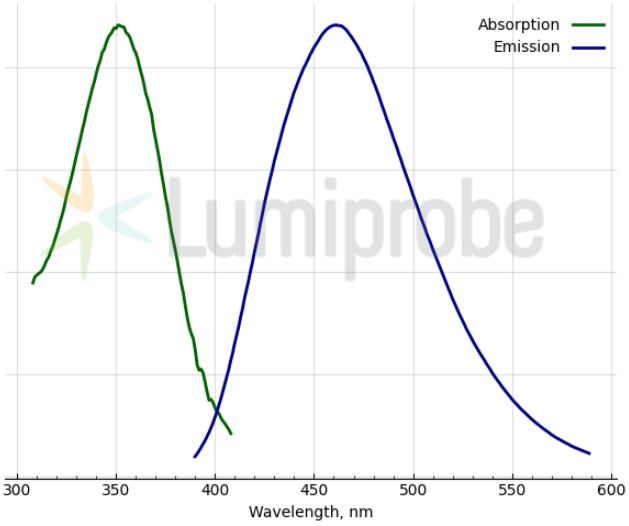
Protocol

Step 1: Add 2 drops per 10^6 cells in 1 mL.

Step 2: Incubate for 60 minutes at 37 °C.

Step 3: Proceed with flow cytometry.





外观:	
质量控制:	NMR 1H 和 HPLC-MS（95+%），功能测試
储存条件:	在黑暗中2-8°C接收後12個月。運輸：在室溫下最多3週。乾燥。

法律声明:	本產品僅供研究目的提供和銷售。本產品並未經過食品、藥品、醫療器械、化妆品等領域的安全性和效力测試，且未經明示或暗示授權用於其他任何用途，包括但不限於體外診斷、人類或動物用途，以及商業用途。

激发/吸收极大值，纳米:	351 (complex)
发射极大值，纳米:	461 (complex)