

Product Datasheet

Hoechst 33258 Staining Solution (orb3031920)

Catalog Number	orb3031920
Category	Tools
Description	<p>Hoechst 33258 is a blue fluorescent dye that can penetrate the cell membrane and specifically intercalates into AT-rich regions of double-stranded DNA. It exhibits relatively low cytotoxicity and is commonly used for nuclear staining. In its free state, unbound Hoechst 33258 emits very weak fluorescence, almost undetectable (maximum excitation wavelength: 346 nm; maximum emission wavelength: 460 nm). However, once intercalated into double-stranded DNA, its fluorescence properties change: upon excitation, it emits bright blue fluorescence (maximum excitation wavelength: 352 nm; maximum emission wavelength: 461 nm), and the fluorescence intensity increases proportionally with DNA content, allowing for quantitative analysis. Hoechst 33258 is often used in apoptosis detection, and the staining results can be observed under a fluorescence microscope or analyzed by flow cytometry.</p>
Purity	99.47% (May vary between batches)
Storage	-20°C
Note	For research use only
Expiration Date	12 months from date of receipt.

Biorbyt Ltd.

7 Signet Court, Swann Road
Cambridge
CB5 8LA
United Kingdom

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

Biorbyt LLC

68 TW Alexander Drive
Research Triangle Park
Durham
NC 27713-2847
United States

Email: info@biorbyt.com, support@biorbyt.com
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)