

Brighter, Longer-lasting Signal and Better Cell Visualization with Qmount™ Qdot® Mounting Media and Qnuclear™ Deep Red Stain

Introduction

Designed for use with cells labeled with Qdot® nanocrystals, the recent releases of Qmount™ Qdot® Mounting Media and Qnuclear™ Deep Red Stain form a pair of important new tools that further enables the utility of Molecular Probes® Qdot® nanocrystal technology for fluorescence microscopy.

Qmount™ Qdot® Mounting Media (Cat. no. Q10336)

Qdot® fluorescence is susceptible to chemical quenching which represents a significant problem with conventional mounting media. Qmount™ Qdot® Mounting Media is a non-aqueous, permanent mountant optimized for performing microscopy with samples labeled with Qdot® nanocrystals. Unlike other mountants, the Qmount™ Qdot® Mounting Media causes no significant loss of the Qdot® nanocrystals' fluorescence, both initially and over the course of several months (Figure 1). This mounting media offers excellent compatibility with all eight Qdot® nanocrystals (Qdot® 525, 565, 585, 605, 625, 655, 705, and 800), their conjugates, and Qnuclear™ Deep Red stain (Cat. no. Q10363), making it an especially valuable tool for multicolor Qdot® nanocrystal imaging applications. Although optimal for use with Qdot® nanocrystals, this mounting medium is not recommended for use with most standard organic dyes or fluorescent proteins.

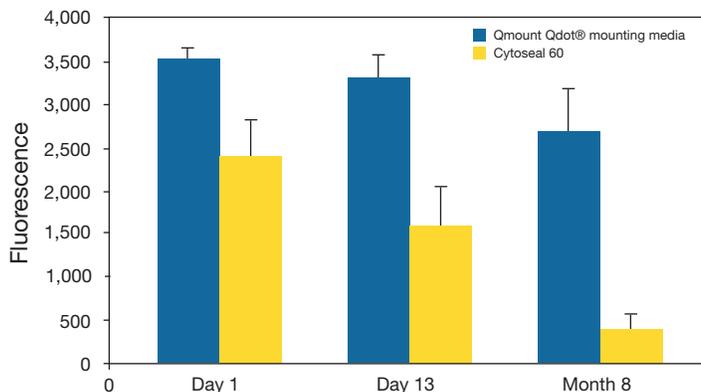


Figure 1. Comparison of fluorescently labeled mammalian cells in Qmount™ Qdot® Mounting Media and Cytoseal™ 60 reagent, imaged on day 1 and day 13, and after 8 months. Qmount™ Qdot® Mounting Media enhances the photostability of Qdot® nanocrystals, both initially and over time. Human carcinoma (HeLa) cells labeled with mouse anti-OxPhos Complex V inhibitor protein IgG (Cat. no. A21355) and Qdot® 605 conjugated goat anti-mouse IgG (Cat. no. Q11001MP) were mounted with Qmount™ or Cytoseal™ 60 mountant (Thermo Scientific) and illuminated using a 100-watt Hg-arc lamp.

Qnuclear™ Deep Red Stain (Cat. no. Q10363)

The new Qnuclear™ Deep Red stain is a nuclear counterstain specifically designed for use with cells labeled with Qdot® 525, 565, 585, 605, 625, and 655 nanocrystals, providing bright and photostable nuclear counterstaining for cell identification and multiplex imaging with no overlap into the excitation wavelengths of Qdot® nanocrystals. With excitation and emission maxima of 640 and 663 nm, respectively, this counterstain can be visualized with standard fluorescence microscopy filter sets (Figure 2).

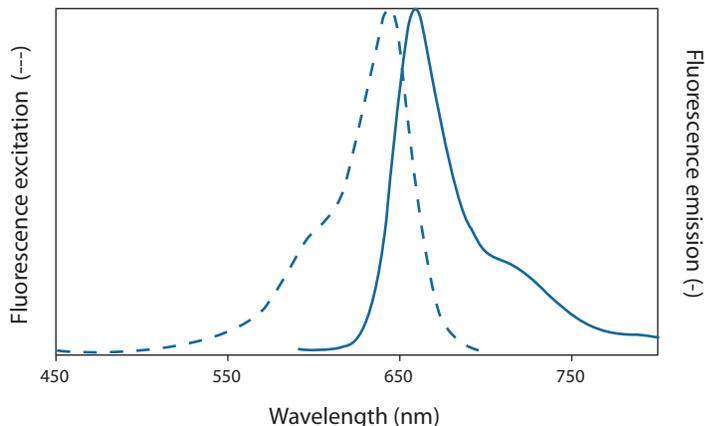


Figure 2. Fluorescence excitation and emission spectra for Qnuclear™ Deep Red Stain.

Product List Current prices may be obtained from our website or from our Customer Service Department.

Cat. no.	Product Name	Unit Size
Q10336	Qmount™ Qdot® Mounting Media	3 × 2 mL
Q10363	Qnuclear™ Deep Red Stain	100 µL

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