## **CALCEIN** SELECTION GUIDE

Fluorophore	Laser	Ex (nm)	Em (nm)	Brightness
Calcein Blue	350	354	441	4
Calcein UltraBlue™	350	359	458	6
CytoCalcein™ Violet 660	405	402	660	1
CytoCalcein™ Violet 450	405	406	445	7
CytoCalcein™ Violet 500	405	420	505	7
Calcein UltraGreen™	488	492	514	10
Calcein	488	501	521	3
Calcein Orange™	532	531	545	6
Calcein Red™	561	562	576	7
Calcein Deep Red™	640	643	663	7

\* Brightness scale is 1 (dimmest) to 10 (brightest), as a comparison of all included dyes. Brightness is computed as a function of extinction coefficient and quantum vield.

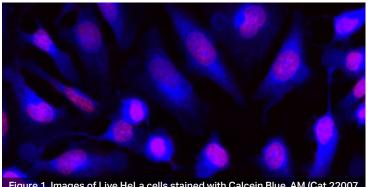


Figure 1. Images of Live HeLa cells stained with Calcein Blue, AM (Cat.22007 ).Cell nuclei were stained with Nuclear Red LCS1 (Cat#17542).

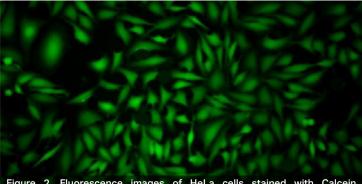
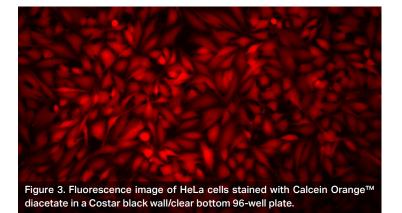


Figure 2. Fluorescence images of HeLa cells stained with Calcein UltraGreen<sup>™</sup> AM in a Costar black wall/clear bottom 96-well plate. The cells were monitored using a microscope with FITC filter.



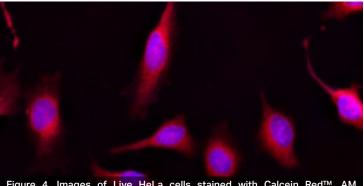


Figure 4. Images of Live HeLa cells stained with Calcein Red™, AM (Cat.21900). Cell nuclei were stained with Hoechst 33342 (Blue, Cat#17535).

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