

Technical Tip: Streamline CyQUANT® Cell Quantitation with the new CyQUANT® NF assay

The CyQUANT® NF Cell Proliferation Assay Kit eliminates the freeze-thaw cell lysis step from the original CyQUANT® assay by using the CyQUANT® NF reagent, a cell-permeant DNA-binding dye, in combination with a plasma membrane permeabilization reagent. (Figure 1).

Similar to the original CyQUANT® assay, the CyQUANT® NF assay also offers great sensitivity—the assay is linear from at least 100 to 10,000 cells per well. In some cell types (e.g., CHO cells), the assay is linear to as few as 20 and as many as 20,000 cells per well (Figure 2).

The CyQUANT® NF Cell Proliferation Assay Kit can be used in either 96-well or 384-well microtiter plate format. For added convenience, the kit is available in two configurations: a 200 assay kit for smaller sample sizes (C35007) and a 1,000 assay kit for high-throughput applications (C35006), both based on a sample volume of 100 μ L. Each kit contains CyQUANT® NF reagent, permeabilization reagent, assay buffer, and a detailed protocol.

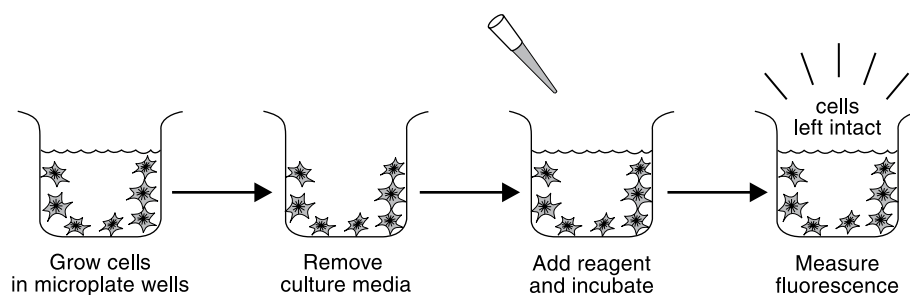


Figure 1. Quick and easy cell quantitation. The streamlined workflow of the CyQUANT® NF Cell Proliferation Assay Kit.

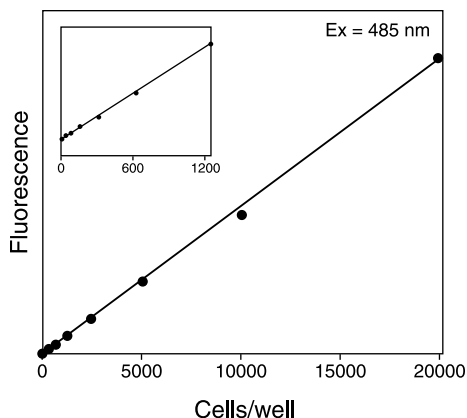


Figure 2. Sensitivity of the CyQUANT® NF Assay Kit Quantitation of CHO (M1WT3) cells using the CyQUANT® NF Cell Proliferation Assay Kit. Fluorescence measurements were made using a microplate reader with excitation at 485 nm and emission detection at 530 nm. The linear range of the assay under these conditions is from 20 to 20,000 cells per 100 μ L sample. The inset shows the linearity that can be obtained at very low cell numbers.

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

Cat #	Product Name	Unit Size
C35006	CyQUANT® NF Cell Proliferation Assay Kit *1000 assays*	1 kit
C35007	CyQUANT® NF Cell Proliferation Assay Kit *200 assays*	1 kit

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