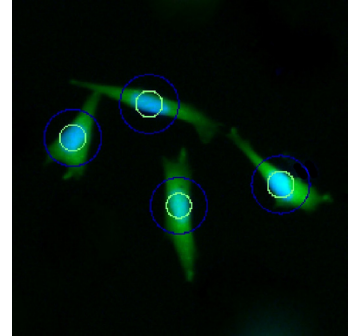


Virtual Cytoplasm 1F

GENERAL PURPOSE

Virtual Cytoplasm (1F) is a two channel fluorescence application which uses a nuclei staining (e.g. Hoechst or Dapi) to locate an individual cell and one functional fluorescence staining to distinguish between two different populations. This functional fluorescence marker can be chosen according to your biological demands e.g. for antibody stainings (immunocytochemistry; ICC) or for staining cell organelles (high content analysis; HCS).



RESULT TABLE

Nuclei Count	Number of recognized cell nuclei
F1 Marker positive	Number of cells with fluorescence in additional channel 1
F1 Marker positive percent	Percentage of cells fluorescence in additional channel 1
Nuclei Density	Number of nuclei per mL, calculated with in the "Prepare" tab entered sample volume and dilution
Avg Nucleus Size	Average size of a cell nucleus in μm^2 per well
Avg Nucleus Fluorescence Intensity BC	Average fluorescence intensity of a cell nucleus over background level per well
Avg Fluo CH1 Intensity BC	Average fluorescence intensity of all detected cell areas in additional fluorescence channel 1 over background

EXAMPLE

This example shows HEK-293 cells with green fluorescent golgi apparatus after a viral transduction and the nuclei were stained with Hoechst 33342.

Marked green: Nuclei staining only

Marked orange: Nuclei staining AND fluorescence in the additional channel

