SYNENTEC

Cell Confluence 1F

GENERAL PURPOSE

The Confluence (1F) image analysis tool is used to determine fluorescent areas within an analyzed brightfield region and the ratio between them. The image analysis uses one brightfield and one fluorescence image in a sequence way. First of all the image analysis will decline the area covered by cells in brightfield followed by an analysis procedure that examine these regions for fluorescence. This can, for example, be very helpful in determining the transfection efficiency.
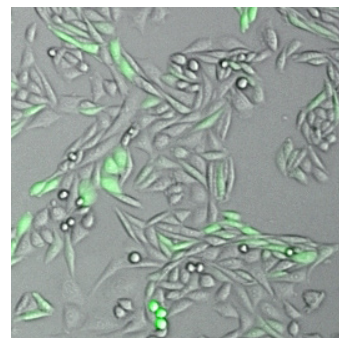
RESULT TABLE

Cell Confluence BF	Percentage of cell area in brightfield on the evaluated area
Cell Confluence Fluo	Percentage of cell area in fluorescence on the evaluated area
Cell Confluence BF AND Fluo	Percentage of cell area in the brightfield AND the fluorescence channel on the evaluated area
Cell Confluence BF only	Percentage of cell area in brightfield (without fluorescence) on the evaluated area
Cell Confluence Fluo only	Percentage of cell area in fluorescence (without brightfield) on the evaluated area
BF AND Fluo Area / BF Area	Area covered in brightfield AND fluorescence with respect to the detected cell area in the brightfield image
Cell Area BF	Area covered with cells in brightfield
Cell Area BF AND Fluo	Area covered with cells in brightfield AND fluorescence (coincidence)
Cell Area BF only	Area covered with brightfield only
Cell Area Fluo only	Area covered with fluorescence only
Cell Area Count BF	Number of separate cell clusters in brightfield
Cell Area Count Fluo	Number of separate cell clusters in fluorescence
Avg Fluo Intensity BC	Average fluorescence intensity of all detected cell areas in the fluorescence image

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EXAMPLE

This example shows a GFP Co-Transfected CHO cell line. The benefit of this application is to figure out the best way of a transfection procedure and offers a monitor tool for the stability of your clones. It is possible to use a "multi measurement" experiment and display the results chosen in a timed graph that represents all time variations of the assay results.