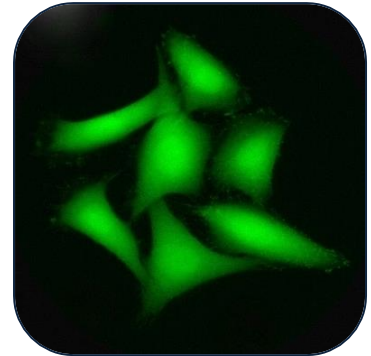


Fluorescence Area (1F)

General Purpose

The Fluorescence Area (1F) image analysis tool is used to monitor the area covered by cells using one fluorescence channel only. A typical application is to check for toxicity on a dedicated drug. The image analysis will determine the area covered by stained cells and calculates the ratio to the whole measured area. Our systems offer the possibility to measure the entire well or a run of your assay in a random way by selecting just a fraction of the total well area.



Short Note
SN-F100-XV-02

Read-Out Data

• Evaluated Area	<i>Total Evaluated Area</i>
• Cell Area	<i>Area covered with cells (fluorescence stained)</i>
• Cell Area Count	<i>Number of separate cell clusters (fluorescence stained)</i>
• Sum of the Size Weighted Fluo Intensity BC	<i>(intermediate result)</i>
• Process Duration	<i>Duration of image analysis [ms]</i>
• Processed Area	<i>Percentage ratio of Evaluated Area on entire well area</i>
• Cell Confluence	<i>Percentage of Cell Area on Evaluated Area (fluorescence stained)</i>
• Avg. Fluo Intensity BC	<i>Average fluorescence intensity in the first fluorescence image over background level</i>

Example

This example displays a cell line that is used to determine the concentration of a drug applied in a medical treatment. The toxicity is determined by the covered area of fluorescence labeled cells being picked by a threshold.

