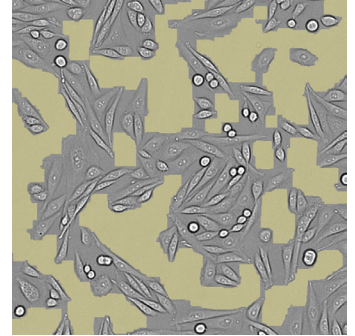# SYNENTEC

Plaque Count

GENERAL PURPOSE

The "Plaque Count" image analysis is used to determine cell-free regions, well bottom, background, based on the evaluation of one brightfield channel only. No staining is required. It can be used as an endpoint determination or to monitor the changes of the cell-free area over time. It supplies the inverse result to the "Cell Confluence" operator. SYNENTEC's systems offer the possibility to measure the entire well or run the assay in a statistic way by selecting a fraction of the total well area.

RESULT TABLE

Plaque Area	Area not covered by cells in mm²
Plaque Count	Number of detected plaques per well
Plaque Confluence	Percentage of uncovered area in the evaluated area

EXAMPLE

An example of the use of the "Plaque Count" operator is a viral plaque assay. It is a method for the detection and quantitation of infectious cytopathic viruses which are added in different dilutions across a multiwall plate containing confluent wells. The software detects and marks the lysed cell areas in the confluent cell layer.