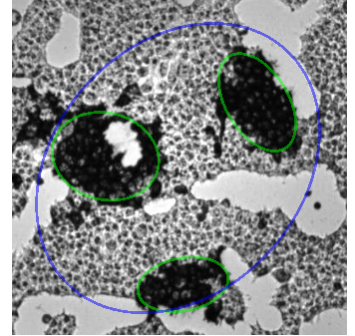


## BF Dark Spots

### GENERAL PURPOSE

The BF Dark Spots image analysis can be used to detect dark spots in a e.g. cell layer using one brightfield channel. It can be used as an endpoint determination e.g. for focus forming assays, a variation of a viral plaque assay.



### RESULT TABLE

Blob Count	Number of recognized dark spots/foci per well
Avg Blob Intensity	Average intensity of all detected dark spots/foci per well
Colony Count	Number of all detected dark spot colonies per well
Area of Colonies	Sum of the areas of all colonies found in the well in mm <sup>2</sup>

### EXAMPLE

The example shows a result of a focus forming assay, measured with a 4x lens.

The cells infected with the virus of interest were visualized with specific horse radish peroxidase (HRP) coupled antibodies against a viral antigen. The HRP oxidizes added 3-3'-diaminobenzidine tetrahydrochloride (DAB), resulting in brown/black insoluble precipitates.

The foci are detected by the software when they reach a defined, adjustable size (marked green). Several detected dark spots are combined as one colony (marked blue).

