

# CellCelector™ All-in-one solution for

Automated screening for single cells, cell colonies & clusters

Flexible + gentle isolation of single cells, cell colonies & clusters

Complete documentation of the full scanning & picking process



## Detection:

Based on sophisticated imaging software, the successful identification and detection of cells or cell colonies will be determined by user predefined settings, including morphology, spectral fluorescence parameters and grey value intensities.

The embedded inverted microscope in combination with an external automated fluorescence filter changer provides live imaging in bright field and various fluorescence illuminations.

## Isolation / Picking:

Our unique and patented isolation procedures utilize highly precise robotic technology in combination with several optimized harvesting modules allowing you to isolate single cells / as well as adherent colonies with highest cell integrity and viability.

The picking process is based on a non-invasive mechanical aspiration process. A variety of isolation tools are available - each optimized for a distinct application.

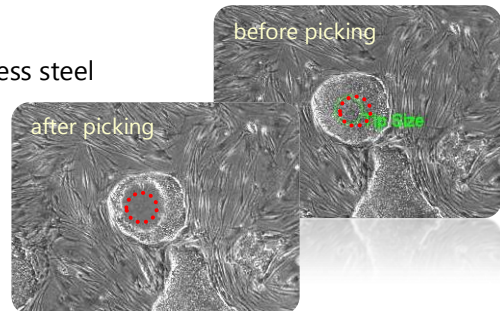
## Documentation:

The entire process from imaging to harvesting is documented via real-time images (images of the picking area before and after each single picking event) and the numeric data including all user-defined Detection-parameters such as morphology or spectral fluorescence values. All data is saved in Excel compatible data sheets.



#### ▲ Scrape Module

- Utilizing reusable high precision stainless steel capillaries
- Used for transfer of adherent colonies and stem cell colonies
- Inner capillary diameter 300µm to 1000µm



#### ▲ Single Cell Module

- Incorporates a liquid buffered glass capillary system
- Used for transfer of single cells, stem cell colony clusters or preparation of Single Cell PCR
- Inner capillary diameter 20 to 220µm



#### ▲ Methylcellulose Module

- Utilizing disposable plastic tips
- Used for transfer of colonies out of semi-solid media like Methylcellulose e.g. Hybridoma or CHO clones for monoclonal antibody production



ALS Automated Lab Solutions GmbH is located in Jena, a dynamic city famous for microscopy and material science. We are specialists for the development of innovative technological solutions for cell biology research and molecular biology. With automation and standardization of laborious manual procedures, ALS Automated Lab Solutions supports science and research for more efficiency and the creation of new methods for the science of tomorrow.

**Please do not hesitate to contact us for further information:**

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