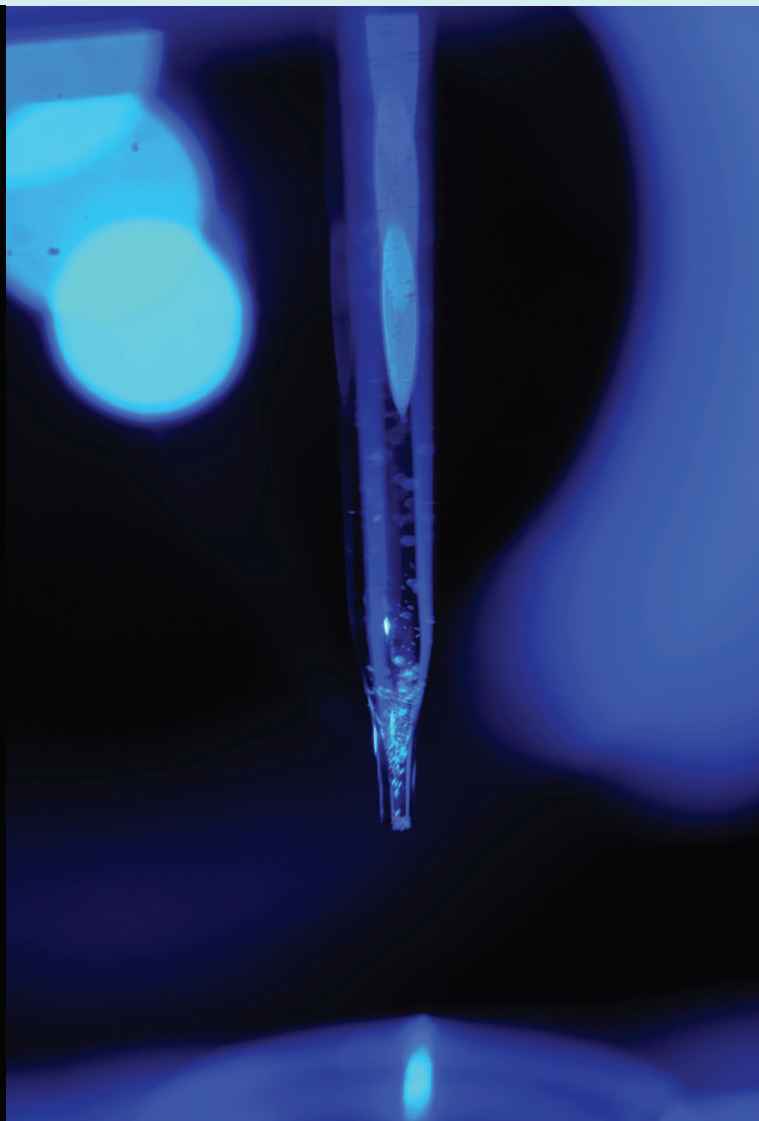
CELLENION
A BICO COMPANY

CELLEN ONE®

For **microbiology applications**

Single cell sorting, isolation & sample preparation

Facilitate omics and cell line development using microorganisms



About cellenONE®

cellenONE® is a unique platform combining high accuracy single cell isolation and precision nanoliter reagent dispensing, allowing miniaturization of a range of single cell omics protocols and enabling automated cell line development workflows with best-in-class clonal outgrowth.

Microbiology applications

cellenONE® is suited for the sorting and isolation of a wide range of microorganisms, for both cell line development applications and single cell omics analyses:

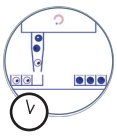
- All microbial single cell omics approaches, for both academic and industrial applications, including Whole Genome Sequencing and Culturomics
- Monitoring of genome evolution and horizontal gene transfer at the very cell level (evolutionary studies at the intra-population level of diversity, monitoring of bioreactor inoculum stability, etc.)
- Screening of individual metabolisms (insights into functional trait emergence/disappearance, high throughput screening for target metabolism, etc.)
- Access to rare microorganisms, understanding microbial dark matter, discovering new metabolisms (metabolic pathways or metabolites), etc.

Any cell type, from microbial cells to large cells (0.5 - 80 µm)

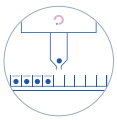
100% single cell

Optional integration in Class II Biosafety Cabinet for sterility

Combined with nanoliter reagent dispensing

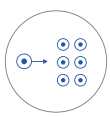


High throughput: isolate up to 96 cells in less than 3 minutes

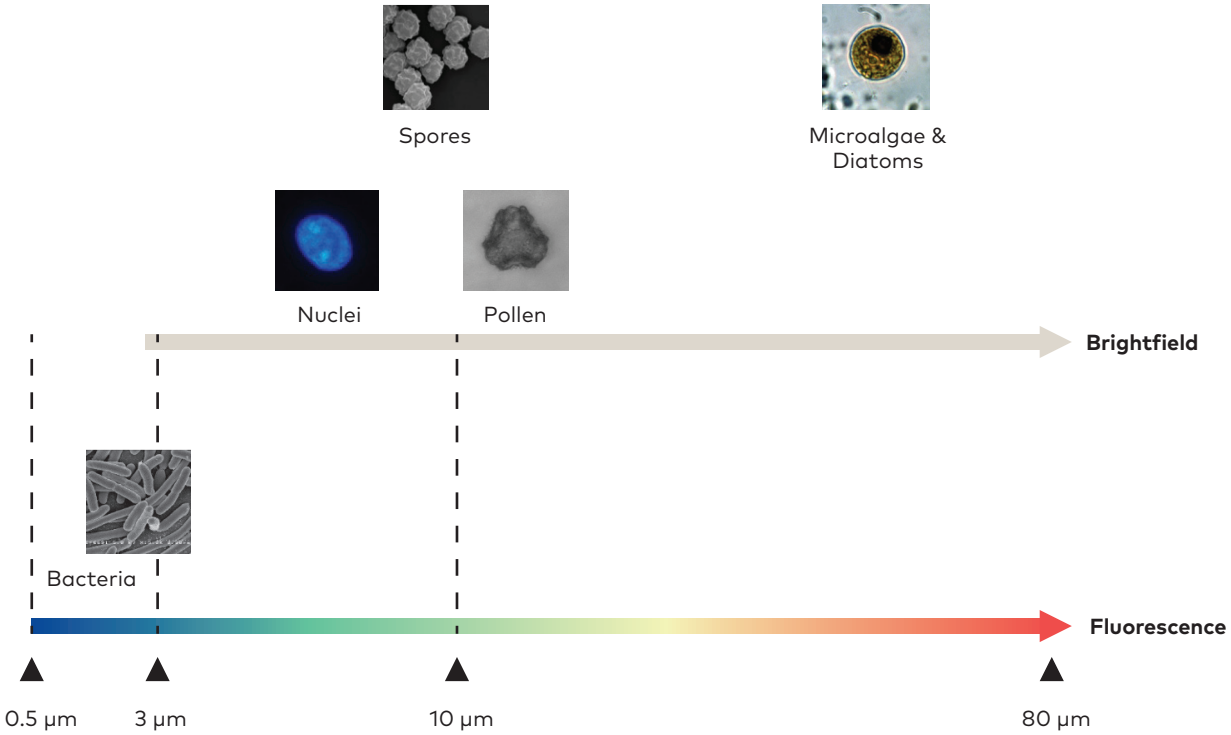


Fluorescence and brightfield image-based sorting

Image recording for every cell



Best clonal outgrowth rate

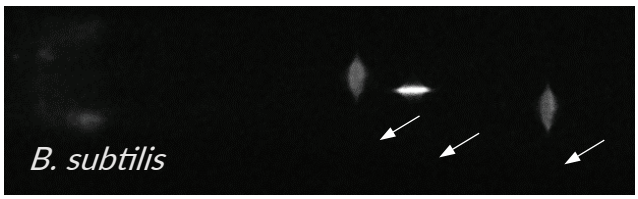


Operational germ-free (axenic) environment

- cellenONE® can be maintained germ-free by regular ethanol-cleaning of the chamber surfaces
- Cross-contamination between samples is prevented by automated sterilization of the dispense capillary
- cellenONE® can be mounted in a class II Bio-Safety Cabinet (BSC) for a completely sterile working environment, to preserve sample and operator integrity

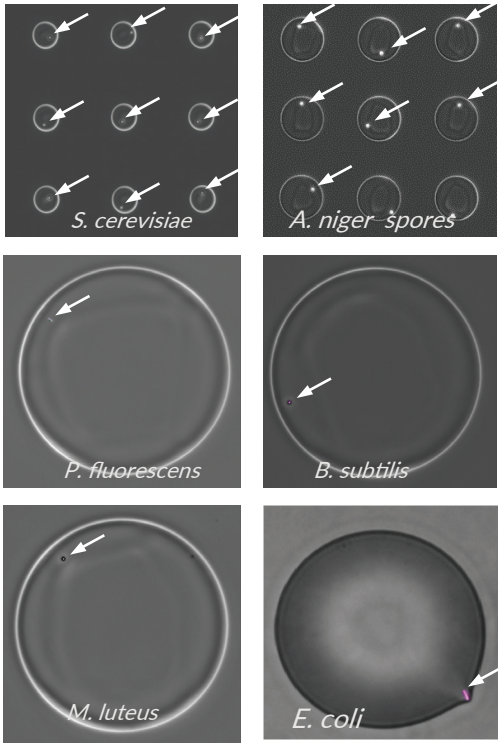
Assurance of monoclonality

- Single cell images recorded and stored by the cellenONE® allow monoclonality inspection
- Particles can be visualized and sorted using 4 different fluorescence channels
- All acquired data and images are combined in comprehensive reports for documentation.



Fluorescent and brightfield modes enable the isolation of a wide range of microorganisms

- Compatible with a variety of fluorescent stains (DAPI, Propidium Iodide, SYTO™, CellTracker™ and Sytox™ dyes, etc.) for small bacteria isolation
  - Multi-channel observation for live/dead sorting, subpopulation sorting, etc.
  - Various types of bacteria, spores and yeasts isolated with best-in-class single cell accuracy
  - Spore isolation possible in both fluorescence and brightfield modes



Do you want to see it in action?

Book a demo through our website.

For more information, visit **www.cellenion.com**

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