

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)



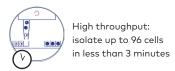
100% single cell



Optional integration in Class II Biosafety Cabinet for sterility



Combined with nanoliter reagent dispensing





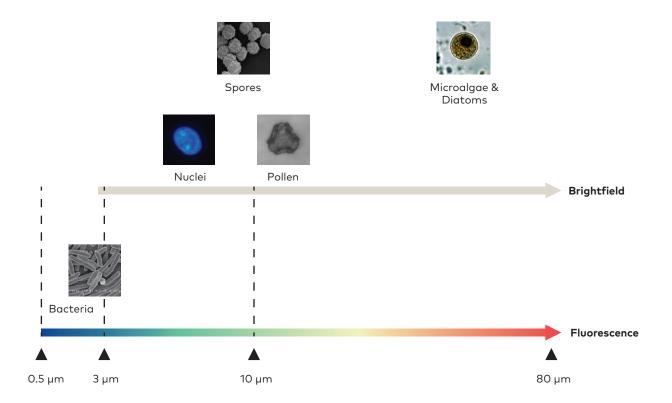
Fluorescence and brightfield imagebased sorting



Image recording for every cell



Best clonal outgrowth rate



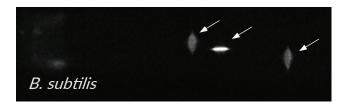
Operational germ-free (axenic) environment

- 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



it in action?

Do you want to see Book a demo through our website.



For more information, visit www.cellenion.com

Contact Us

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