

CellStream

Rapid Sample Preparation



● Application

- Separation, concentration and purification of target cells from different matrices
- Lab-on-a-chip technology
- Delivery of ready-to-use samples for flow cytometry, cultivation, PCR, microscopy, etc.

● Speed

- Reliable, quantitative results in less than 2 hours
- Immunomagnetic separation in 30 min
- Preparation of up to 4 samples in parallel

● Handling

- Automated and robust process
- Process control via touchscreen
- Low maintenance



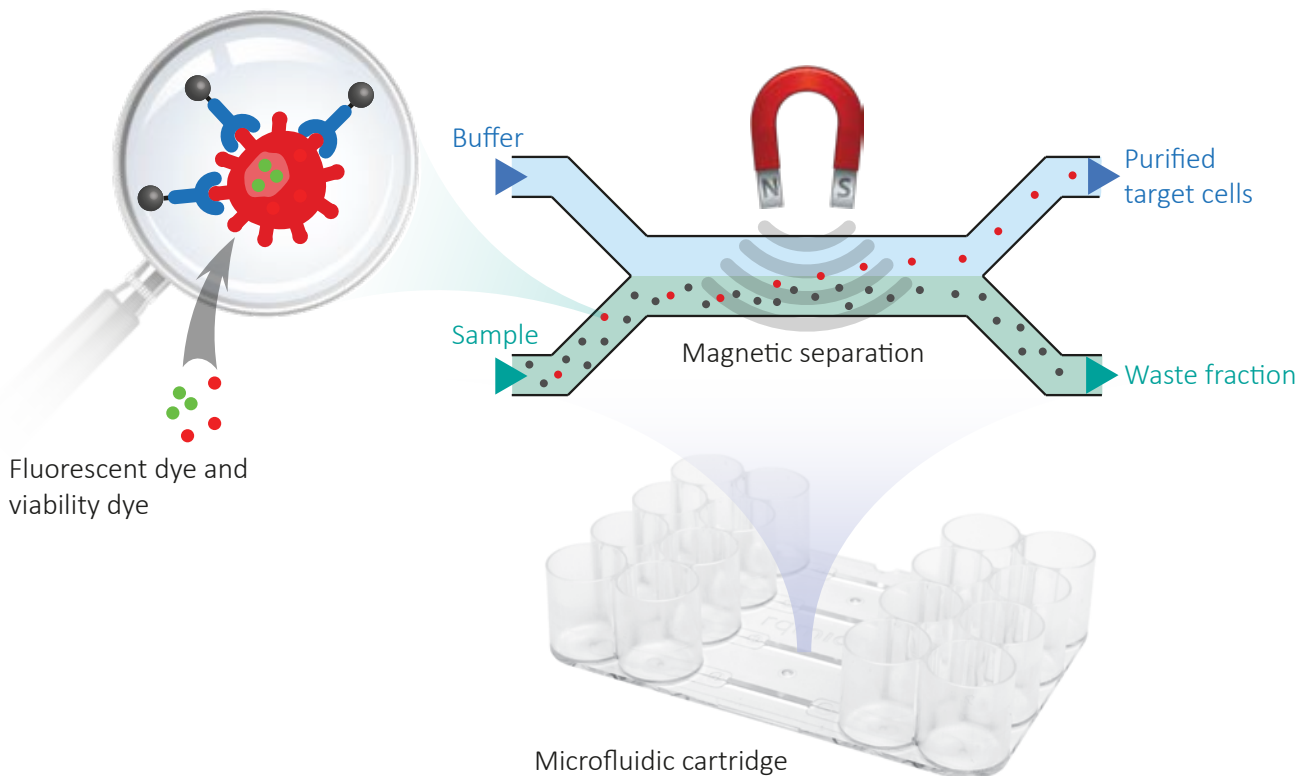
The CellStream combined with the rqmicro reagent kits provides a complete solution for sample preparation.

The target cells bound to magnetic particles are isolated from different sample matrices by means of automated immunomagnetic separation (IMS). The purified target cells can subsequently be quantified with a standard flow cytometer or any other method of downstream-analysis.

The disposable microfluidic cartridges allow for a fully automated IMS at high throughput, resulting in ready-to-analyze samples with unmatched purity and recovery rates. Four samples can be processed in parallel with excellent process stability.

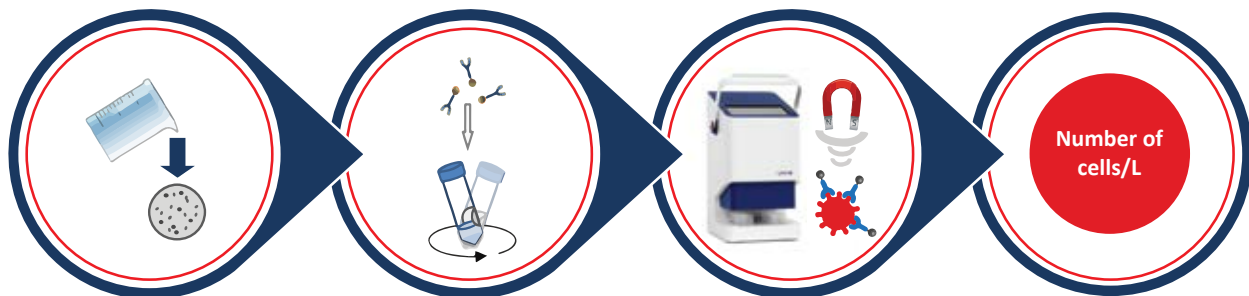
Immunomagnetic Separation and Microfluidics

Cells are bound by antibody-coated magnetic particles



During IMS a magnetic field is activated, diverting the fluorescently labeled target cells, which are bound by antibody-coated magnetic particles. At the same time, > 95% of the competing flora originally present in the sample is directed to the waste fraction. The purified target cells are ready to be quantified with the preferred method of downstream-analysis.

Flexible Integration into Your Workflow



Concentration

Reaction

Automatic
Immunomagnetic
Separation (IMS)

Quantification

- Flow cytometry
- Cultivation
- other

⦿ Time to Result

- Reliable, quantitative results in less than 2 hours
- Preparation of up to 4 samples in parallel

⦿ Ease of Use

- Limited training required
- Integration in established workflows
- One-button operation

⦿ Consistency

- Automated process eliminates operator bias
- Cartridge system guarantees uncontaminated sample setup

⦿ Maintenance

- Low maintenance due to sample actuation by pressure in microfluidic disposable cartridge

⦿ Flexibility

- Cell integrity is fully maintained for maximum analytical insight
- Quantification of cells with flow cytometry, cultivation, PCR, microscopy, etc.

⦿ Software

- Process control via touchscreen
- Multi language support (EN/DE)
- Android and iOS apps for updates, alarms and controls

Sample throughput:	1 - 4 / 30 min
Benchtop size:	38 x 22 x 24 cm
Portable weight:	10.8 kg
Low power consumption:	20 W
Connectivity:	Ethernet, USB Port
App:	iOS, Android
Screen:	7 inch capacitive touch screen LCD



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