

ACOUWASH

PRODUCT SHEET



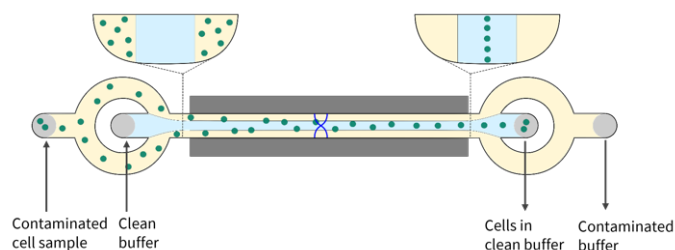
AUTOMATED CELL WASHING AND SEPARATION

The AcouWash is designed for automated handling of biological samples in order to generate high-purity samples for downstream analysis with minimized manual handling steps. The core technology is acoustofluidics where a combination of microfluidics and sound waves is used to separate blood into its components and to isolate, purify and enrich cells. By fine-tuning parameters such as the flow rate or density of the medium, cells with different physical properties such as size or density can be separated from each other.

With high-precision flow control and an easy user interface the AcouWash is a novel solution for gentle cell washing, separation and enrichment with high throughput and cell viability. The AcouWash saves time by replacing, in a single run, the repeated centrifugation and manual resuspension that is required in manual cell washing protocols.

The AcouWash system is suitable for use as a research instrument as well as a platform for life science companies for assay development, with the purpose of integrating the technology in next generation diagnostic systems.

The central part of the system is an acoustic chip, which is easily mounted inside the system and overviewed through a camera. The dual inlet, dual outlet chip design allows for a variety of cell separation applications, e.g. removing debris or unbound antibody from a cell sample as well as separation of plasma or platelets from whole blood samples.



FEATURES

- Dual inlet, dual outlet separation microchip
- Automatic internal precision flow regulation
- Temperature controlled separation chip
- Live viewing for process monitoring
- Less than 3 min start-up time
- User friendly software
- Compact benchtop design
- Cell wash of up to 10^7 cells/mL with >90 % recovery

TECHNICAL SPECIFICATIONS

Dimensions

26 cm x 32 cm x 32 cm (width x depth x height)

Weight

7.3 kg

Power requirement

24 V DC, 5 A

Sample containers

15 mL & 50 mL tubes (Falcon)

Flow rates

20-500 μ L/min

Sample volumes

0.250-13 mL

Compressed air or nitrogen supply

Oil-free compressor or standard central laboratory supply line (4 bar)

ACOUSORT

AcouSort is an innovative technology company with high focus on products and solutions for automated preparation of biological samples for researchers and life science companies.

Strategic Collaborations

AcouSort frequently engages in joint development projects with leading life science companies to provide unique solutions for integrated sample preparation.