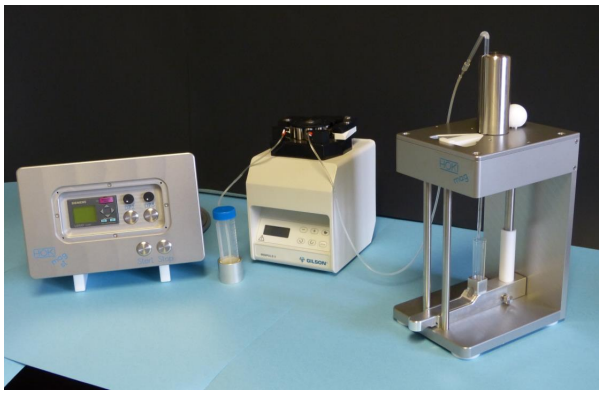
HOKImag

„free flow“ magnetic chamber with a novel, patented magnetic field focussing system for the isolation of biological material



Advantages

- Broard spectrum of applications
- Minimal contaminations due to small surface of the colums
- Usage of magnetic beads of diverse sizes due to the „free flow“ columns
- Loading of lager sample in a flow-through mode
- No ultracentrifugation of the eluted samples neccessary after magnetic separation

Unique Feartures

1. No clotting of the inner hollow „free flow“ separation columns, small surface, gentle separation, lowest contamination
2. No ferromagnetic filling materials inside the colums due to a patented focussing matrix outside the columns
3. 3 Tesla strong inhomogenous magnetic field for labeling with smallest magnetic beads (50 nm)
4. Isolation of cell clusters as well as whole tissue clusters possible
5. Automatization through programmed HOKImag-St pump control
6. Inexpensive separation columns

Applications

Cell Biology and Biochemistry:

Immunomagnetic separation of intracellular organelles, membrane complexes, soluble protein complexes and receptosomes from cell cultures, spheroids, tissues, defined cell populations as well as from blood serum from patients.

Microbiologie, Infectiology:

Immunomagnetic isolation of invasive bacteria in phagosomes from infected cells for the analysis of host / germ interactions.

Immunology:

Immunomagnetic separation of cell subpopulations from whole blood for immune staging analysis.

Oncology:

Isolation of exosomes from blood of tumor patients for minimal invasive serological diagnostics. Analysis of tumor-apoptosis resistance mechanisms.

Awards

Hensel-Price 2009 of the Christian-Albrechts-University of Kiel for the „successful development and application of a novel immunomagnetic isolation technique“

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Contact

HOOCK GmbH

Liebigstraße 22
24145 Kiel
Tel.: +49 431 71577
Fax: +49 431 71578
Email: info@hoock-gmbh.de

Scientific advisor:

Prof. Dr. Dr. Stefan Schütze
stefan.schuetze@t-online.de