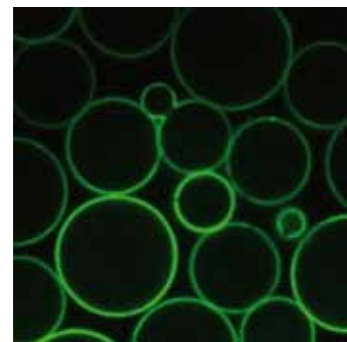


# TECHNOLOGY

The selection process is performed with a Strep-Tactin® coated agarose matrix. After adding the specific Fab fragments to the matrix, whole blood is passing through the column.

The target cells bind to the matrix due to the specific Fab fragments. Non-target cells will be washed out.

Adding D-biotin to the column causes a dissociation of the Fab fragments and of cells from the matrix. The label-free target cells are now selected in high yields.



matrix loaded with fluorescently labeled Strep- tagged Fab fragments



matrix loaded with target cells



after adding D-biotin: target cells are released from the matrix

# TECHNICAL DATA

Height: 72 cm

Length/Depth: 29 cm

Width: 32 cm

# EXPERIENCE CELL SELECTION

## DEVICE CELLina

a fully automatic floor mounted appliance selecting cells and proteins out of a suspension made for research and development projects.



CELLina



# Cell Selection Device



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# CELL SELECTION FROM WHOLE BLOOD IN 60 MIN. NO MAGNETIC BEADS!

CELL<sup>ina</sup>



- entirely new method
- up to 500ml
- high yield
- high purity
- immune affinity chromatography with Fab fragments
- minimal cell activation
- no magnetic beads
- barcode controlled
- fully automatic
- closed, sterile system
- modern design
- venQver-valves
- simple, intuitive operation
- compact construction
- no centrifugation
- customized Fab production
- up to 10 devices connectable

## CELL SELECTION FROM WHOLE BLOOD

E.G. PBMCs-Fraction, T-CELLS OR B-CELLS

Specific cell selections with Fab-Streps: CD3, CD4, CD8 (T-cells), CD81 (PBMCs), CD19 (B-cells) and CD14 (Monocytes).

Selections are performed by a Fab-based affinity chromatography.

IBA GmbH and its partners continuously develop different Fab fragments for specific / customized selections.

CLOSED SYSTEM

STERILE AND FULLY AUTOMATIC

## THE SELECTION PROCESS OUTCOME:

PURIFIED CELLS (E.G. PBMCs, T-CELLS OR B-CELLS) FROM WHOLE BLOOD IN ABOUT 60MIN, WITHOUT CENTRIFUGATION

