

CELECTOR® LAB THE CELL CHROMATOGRAPH



Celector® Lab is a patented instrument for separation, live cell-imaging, and collection of human cells.

Celector® exploits the basic concept of chromatography to provide a label-free separation of cells based only on their native physical properties: dimensions, morphology, and density.

The absence of immuno-labeling avoids signaling cascade activation, maintains the native cell physiology, and preserves stem cells' full regenerative potential.

A high-resolution camera **visualize** and **record** eluting cells like **frames of a movie**: Celector® can capture single frames to be stored in a customized library for post processing analysis.

1 What is it?

Celector® is a **new way forward** for QC procedures and cell production processes: following Celector® analysis, cells can be **easily stored, cultured, and amplified**.

2 Features

With Celector®, researchers and scientists will be able to:

fingerprint a living cell sample before re-inject, cryopreserve, study;

select a pure, living, unlabelled cell subpopulation;

deplete non-cellular contaminants from raw samples;

break down selection and culturing costs.

reduce cell damages and loss, and operation time

3 Advantages

Celector® sorts **living cells (105-106 cells/run)** under **sterile conditions** both from fresh and cultured samples.

Exclusive advantage: it is the only separation technique able to fingerprint and isolate living cells via time-resolved separation in sterile conditions.

Additional advantages:

cheaper than existing cell-sorting instruments
short-time of analysis (between 10 and 40 min from injection to collection)

real-time quality control (QC) of the sample and imaging of flowing cells

preservation of cell viability and functionality

CELECTOR® LAB

A CELL-FRIENDLY SELECTION AND QUALITY CONTROL

4 Market

The core business placement of Celector® is seen in the field of cell biology/biotech.

market **segments**: Regenerative Medicine (38B\$); Cell Analysis (26B\$); Cell-Based Assays (17B\$).

target markets: Technologies for Tissue Engineering; Technologies for Cell Therapies; Technologies for Circulating Tumor Cells, Drug Screening; Basic Research.

analogs: Flow Cytometry (FC)/FACS; MACS®.

expected initial Celector® **share**: 3-5% of total FC/FACS-MACS market of cell applications.

5 Clients and product

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6 Opportunities

We are looking **for commercial partners** to work in synergy.

The partner should be acquainted with life science industry—lab equipment for cell analysis/cell sorting.

We are looking for cell banks and research labs to beta-test our Celector®

