

**Cell Sorting Service**  
**Institute for Cardiovascular Prevention (IPEK), LMU München**  
**BD FACSAria III Pre-Sort Request**

Name and Department:

E-Mail:

Phone:

Requested date:

Cell type:

Cell size and count <sup>(1)</sup>:

Sample type:   human            mouse

other species:

Number of samples to sort:

Viability dye <sup>(2)</sup>:

How to collect sorted cells: bulk sort or single-cell on plate?

Are the appropriate control tubes <sup>(3)</sup> available?

Which is most important in this experiment, cell yield or purity <sup>(4)</sup>?

Is the sample sterile?

Describe the fluorochrome(s)/dye(s) to be used (e.g. directly conjugated mAbs, transfected/transduced fluorochromes) as well as the target population(s) for sorting:

**Important safety note:** risk of aerosol formation by unpredictable clogging of the nozzle.

Is your sample hazardous if aerosolized?

Does the sample match BSL-1?

Expenses rates\*:

- |                        |                  |
|------------------------|------------------|
| 1. LMU:                | 100,- € per hour |
| 2. Another university: | 150,- € per hour |
| 3. Company:            | 300,- € per hour |

\*plus 50,- € single flat-rate for consumables (calibration beads, liquids, plastic tubes, filter caps) and annual sorter maintenance.

**Billing address:**

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<sup>(1)</sup>Three nozzles are available: 70µm, 85µm and 100µm. For optimal sort performance, the cell size should be 4-5x smaller than the nozzle diameter.

If possible, cell number for sorting should be 5-10 Mio cells per mL. To prevent nozzle clogging, cells should be re-suspended on ice in a pH-neutral buffer like HBSS with addition of 2mM EDTA or DNase (especially after tissue digestion). Cells are usually filtered prior loading through a 35µm nylon mesh strainer. Collection tubes or plates should contain some buffer preferably with 10% FBS or culture medium.

<sup>(2)</sup>Optional to confirm cell viability prior sorting.

<sup>(3)</sup>To ensure proper PMT voltage setting, an unstained, isotype IgG or FMO control could be useful.

<sup>(4)</sup>Using "yield" as sort precision could reduce the purity of sorted cells. Sorting on "purity" is more restrictive meaning that cell harvest could be lower while the purity is higher.