**Affiliation**

|  |  |  |  |
| --- | --- | --- | --- |
| Name: |  | | |
| Group: |  | | |
| Institution: | |  | | |
| Contact Information (Mail/Telefone): | | |  | | |

**Sample Source**

We offer sorting conditions BSL 1 and BSL 2; it´s crucial for safety reasons to mark every potential risk for our operators! Even tested human material (HIV, HBV, HCV) is handled as BSL2.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Species: | | |  | |  | |
| Origin: | |  | | | | | |  |
| Bio Safety Level (BSL): | | | | BIO 1 | | BIO 2 | | |
| Genetically modified: | | | | No  🡪 S0 | | | Yes  🡪 S1  S2 | | |
| If marked „Yes“ please insert reference number of your “Gentechnikantrag/TVA”: | | | | | | | | | | | | |
|  |  | | | | | | | | | |  |

Required documents:

S1-Sort: “Formblatt GA” with gene cards and a filled-out Z-Form

S2-Sort: “Gentechnikantrag” with permit of the ROB - 2-month lead time!!!

**Sort information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number of samples (for sorting): | | | | | | | |  | | | | | | | |
| Cell count per sample: | | | |  | | | | | | | | | |
| Target cell frequency: | | |  | | | | | | | | | |
|  | | | | | | | | | | |  | | | | | |
| Speed enrichment requested: | | | | | | | No | | | Yes  🡪 color: | | | | |
| Single Color CTRL: | | No | | | | Yes | | |
| Live/Dead stain: | No | | | | Yes  🡪 name: | | | | | | |

We recommend a **cell density of 2.5\*107/ml**. Calculation: In 1hour sorting time, 1\*108 cells can be sorted. For special applications (cells larger than 20µm; rare cell sorting) and other questions to this issue please contact us directly (089/ 4140 6248).

Target cell frequencies are dependent of the sort mode and strongly correlate with achievable yields and purities. A pre-enrichment of cells can be beneficial for expected population sizes <1%.

**Staining Panel**

Please be aware of that the sorters have different laser settings! Further information on our website.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 405nm | BV421/BFP | KO/Ametrine | BV610 | BV660 | BV785 |
| 488nm / 561nm | FITC / GFP | YFP | ECD | PE | PE-Cy 5.5 |
| PerCP/7AAD | PerCPCy 5.5 | PE-Cy7 | TexasRed | mCherry |
| 640nm | APC | APC700 | APC-Cy7 | RFP |  |

Others:

**Additional information:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sorter preferences? | ARIA | | Astrios S1 | | Astrios S2 | |
| Fixed date requested: |  | | | | | |
| Fixed time requested: |  | | | | | |
| Plate Sort? | 96 well | | 384 well | |  | |
| Tubes? | Eppis | Facs Tubes | | 15ml Tubes | | 50ml Tubes: |
| Sort mode: | Enrich | | Purify | | Single | |
| Nozzle size: | 70 µm | | 100 µm | |  | |
| RNA extraction: |  | |  | |  | |
| Exotic cell material: |  | | | | | |

**Generally: your cells should be no larger than one quarter the diameter of the nozzle with which you are going to sort.**

**Rules and requests by the core facility:**

* **Be advised that sorting reservations will only be done when all required information in this document were given**
* Sorting material (even single color) must be filtered through a 30µm mesh (available at the facility)
* sorting time is limited to 4 hours per appointment and bookings can’t be done earlier than 3 weeks in advance; additional time or earlier registration can only be given by contacting the operators
* sorting is possible from:

Monday: 12.00am to 16.00pm

Tuesday: 10.00am to 16.00pm

Wednesday: 10.00am to 16.00pm

Thursday: 10.00am to 16.00pm

Friday: 10.00am to 15.00pm

Exceptions are possible depending on the experiment e.g. 10x

* **exotic material:** tumor samples, cells larger in size than 20µm, clumping cell material, temperature or sorting sensitive material, small particles, bacteria etc.… please name potential problems so we can contact you in advance for further questions
* For panels used for the first time on our instruments, please take a printout of an exemplary FACS Analyzer sample with complete plotting and gating strategy.
* For transduced cell material, negative controls are needed
* Weak expressed marker and dim staining need FMOs (Fluorescence minus one) controls
* Stick to your requested sorting times; additional cell material and short notice extensions cannot be granted
* Short notice cancellation may be charged by the facility
* 100µm Nozzle Sorts with the Astrios S1 or S2 are available **only** on Fridays!