

SOME SMALL ADVICE TO IMPROVE THE METABOLOMIC SAMPLE PREPARATION

Plant Material

Weigh 10±1 mg plant material (fresh weight) in a 1.5 ml eppendorf tube (keep cool). Use an eppendorf tube with a "Safety Cap" (example Sarstedt-tubes, order no. at Sarstedt: 72690). Tubes with "easy cap" leak during the extraction procedure.



Micro tubes 1.5 ml, PP, with attached PP "SAFETY CAP"

- Tightly fitting closure, e. g. for thermal applications
- With graduation and frosted writing space

Order Number	Length/Ø mm	Colour	Packaging	Pcs./Case
72.690	39 / 10.8	neutral	500/Bag	5,000
72.690.007	39 / 10.8	violet	500/Bag	5,000
72.690.475	39 / 10.8	blue	500/Bag	5,000
72.690.476	39 / 10.8	green	500/Bag	5,000
72.690.477	39 / 10.8	red	500/Bag	5,000
72.690.478	39 / 10.8	yellow	500/Bag	5,000
72.690.004	39 / 10.8	brown	500/Bag	5,000

Note the **exact sample weight** for each sample in an excel-sheet. The weights are used later on for correction.

Number the tubes from 1-number of samples. Number both on the cap and on the side of the eppendorf tube. All information about sample number, sample name, sample treatment (NH₄, NO₃...), genotype (phyA, WT...) sample class (1, 2, 3...), sample weights, sampling day/time (9:30, 10:20) etc. are stored in the excel-sheet.

There are several steps where the sample is transferred to another container, and therefore numbering is much better.

We want as many biological replicates of each class as possible (10 samples are recommended).

Beads: Tungsten Carbide Beads, 3 mm (200 in a box), Qiagen

Plasma samples

Pipette 100 µl plasma to a 1.5 ml eppendorf tube (use an eppendorf tube with a "Safety Cap", for example Sarstedt-tubes). Tubes with "easy cap" leak during the extraction procedure.

Number the tubes from 1-number of samples. Number both on the cap and on the side of the eppendorf tube. All information about sample number, sample name, sample treatment (estradiol, growth hormone...), genotype (AA, Aa, aa...), sample class, (1, 2, 3...) sample volumes, sampling day/time (9:30, 10:20) etc. are stored in an excel sheet.

There are several steps where the sample is transferred to another container, and therefore numbering is much easier.

We want as many biological replicates of each class as possible (10 samples are recommended).

Other important information

When you send samples you must:

- Give the project a name (short name, which describes what it's about)
- Describe the project and the purpose with the metabolomics analysis
- Principle Investigator (PI)
- Information about the comparisons you want us to do (if you want us to do any multivariate analysis).