

TISSUES

Figure S9. Recommended protocol and technical aspects for tissues

RP modified (-3 < Log P < 7) RP (Log P > -1) HILIC (Log P < 1) 325 metabolites: steroids, acvlcarnitines. 256 metabolites: steroids, heterocyclic 181 metabolites: aas, carbohydrates, phospholipids, heterocyclic comp.,aas, acylcarnitines, amines... comp., benzenoids, aas... amines.. 122 metabolites: BAs, phospholipids, 109 metabolites: BAs, Fas, 47 metabolites: carbohydrates, organic ecosanoids, FAs, organic acids, phospholipids, ecosanoids, organic acids, Faz, BAs. carbohydrates. acids 254 metabolites: aas, carboxylic acids, 356 metabolites: aas, carboxylic acids, FAs, 252 metabolites: FAs, BAs, steroids, heterocyclic comp., nucleotides, BAs, steroids, heterocyclic comp., heterocyclic comp., organic acids, +/carbohydrates.. nucleotides, benzenoids, carbohydrate benzenoids, flavonoids.. aas: amino acids; FAs: fatty acids, BAs: bile acids

Tips

Remove residual blood as quickly as possible and freeze the sample instantly to ensure homogeneous freezing

Weigh on dry ice to avoid thawing tissue

- For dry grinding, the sample is weighted after grinding. For wet-extraction, the sample is weighted before adding the solvent

- For dry grinding temperature must to be controlled to prevent thawing. For wet extraction keep temperature below 4°C

- Use ice-cold extraction solvent to prevent enzymatic metabolite degradation

- Centrifuge at least 2x at max speed at 4 °C to ensure that no debris is transferred to the HPLC vial

- The homogenization conditions must be adapted to the tissue (beads / speed / cycles)

[*] Recommended conditions based on our experience