



Laboratory Genetic Metabolic Diseases

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Protocol for collection and pretreatment of blood samples for the determination lactate, pyruvate, acetoacetate and 3-hydroxybutyric acid in blood and CSF

- *Blood*: collect a minimum of 1 ml of blood in fluoride/EDTA tube, mix well
- *CSF*: collect a minimum of 0.7 ml of CSF in a clean tube without additives
- Pipette 1 ml of blood / 0.7 ml of CSF in a conical tube of at least 10 ml
- Add an equal volume of 1.0 M perchloric acid to the sample
- Mix by gently tapping the tube
- Place the mixture on ice for 10 minutes
- Centrifuge for 10 minutes at 4°C at 1700 x g
- Transfer the supernatant to a new tube
- Centrifuge again for 10 minutes at 4°C at 1700 x g
- Transfer the supernatant to a new tube suitable for transport
- Store the sample at -20°C until shipment
- Send the frozen samples on sufficient dry ice, together with a completed laboratory form ([Test request form Metabolite / Tumor diagnostics](#)) to our laboratory by (international) courier