

LABORATORIUM VIR AANGEBORE METABOLIESE DEFEKTE LABORATORY FOR INHERITED METABOLIC DEFECTS

SKOOL VIR BIOCHEMIE / SCHOOL FOR BIOCHEMISTRY

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HANDLING OF SAMPLES

Contact person for all enquiries:
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URINE SAMPLES:



- All urine samples must please be FROZEN and send on an ice pack or dry ice in a cooler box.
- NO PRESERVATIVES must be added to the urine sample
- For CYSTINE & HOMOCYSTINE analysis we need a 24h sample [volume must please be provided to calculate the excretion per day]

SERUM SAMPLES:

- Please avoid using red top tubes for blood collection, especially if the sample is not spun down and seperated immediately (as required). X
- The blood sample must please be <u>spun down</u>, the <u>serum/plasma</u> <u>transferred</u> to another tube, <u>frozen</u> and <u>send on an ice pack or dry ice</u> <u>in a cooler box</u>. Even if a SST / EDTA tube is taken, the sample must still be spun down, the serum/plasma transferred and frozen BEFORE transport to our laboratory.
- If the sample is haemolized, no analysis can be done, because haemolized samples could give false positive results. **OIMPORTANT**

BLOOD CARD SAMPLES:

- All circles must please be completed.
- The sample must be taken by heel or finger prick and done in one circular movement. Be careful not to 'overlay' the sample!
- Please see instructions for taking of the sample at the back of the blood card.
- Allow samples to dry in a horizontal position (contact <u>brenda.klopper@nwu.ac.za</u> for more specific information on New Born Screening requirements and Information)
- CARBOHYDRATE DEFICIENT GLYCOPROTEIN SCREENING & BIOTINIDASE ENZYME ACTIVITY DETERMINATION – allow samples to dry in a horizontal position (see instructions at the back of the blood card – Guthrie card)

CFS (cerebrospinal fluid) and SERUM SAMPLES for GLYCINE SPECIFIC ANALYSES (<u>both</u> required for this analyses):

- CSF SAMPLE must be frozen and transported on DRY ICE, since protocol requires that the sample does not defrost / thaw out during transport because it is only viable for analysis when received frozen.
- SERUM SAMPLE must be collected according to specifications on page 5 of this document (as for other serum / plasma samples), separated, frozen and send together with the CSF sample on DRY ICE.
 - **IMPORTANT**: For GLYCINE SPECIFIC analyses the CSF + SERUM SAMPLES must be taken on the same date and time.

OTHER SAMPLES FOR SPECIFIC ENZYME ANALYSIS:

• Please contact our laboratory, since the blood samples should be collected according to certain specifications and protocol.

| FIBROBLAST SKIN CULTURE:

- Please contact our laboratory for skin biopsy protocol and relevant information regarding any specific analysis requested on fibroblast skin culture samples.
- **PRIOR ARRANGEMENTS** must be made, in order to avoid possible contamination of collected samples during transport.

MUSCLE BIOPSY – MITOCHONDRIAL ACTIVITY DETERMINATION:

• Please contact our laboratory for muscle biopsy protocol that should be followed and for **PRIOR ARRANGEMENTS**.