

Plasma oxalate determination

1. Patient:

(Name) (Surname)

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Birthday

2. Diagnosis: _____

3. Pathological levels: Blood _____ **Creatinine:** $\mu\text{mol/l}$
Urine _____
US/X-ray _____
Stone analysis _____

4. Medication: _____

5. Analysis:

Oxalate Citrate Glycolate L-Glycerate

Hydroxy-oxo-glutarate

Send sample on dry ice to: Kinderneurologie, att.: Prof. Dr. B. Hoppe,

Universitäts-Kinderklinik, Adenauerallee 119, 53113 Bonn, Germany

Phone Lab: +4922828716499

Sender

Date/Signature

PLASMA PREPARATION

An adequate preparation of the blood sample is crucial to prevent in vitro neogenesis of oxalate. Otherwise, inappropriately high plasma oxalate levels would be determined. Hence, the following steps have to be followed:

- Draw a minimum of 1 ml of heparinized blood (lithium heparin) and immediately place it on ice
- Start the ultracentrifugation within the next ten minutes
- Centrifugation of the blood sample with 1000 x g and 4°C for 5 minutes
- Plasma is then ultrafiltered at 1500 x g and 4°C for 20 minutes using a Centrisart-I-ultrafiltration vial (Sartorius Co., NY, USA). Plasma is placed in the outer chamber of the vial and 20 µL 2 molar HCL per ml plasma is added into the inner chamber to ensure simultaneous acidification of the ultrafiltrate (pH < 1.8) see figure!
- Store plasma samples at - 20°C and/or send it for analysis on dry ice.

Please ensure that the parcel will be delivered within 2-3 days, so that the samples are still frozen on arrival.

Plasma preparation

