

STANDARD OPERATING PROCEDURE V01– SPOT URINE FOR PEPTIDOMICS

Objectives:

Urinary peptide patterns via mass spectrometry for detection of biomarkers for disease stratification (Phases 2, 3, and 4 – ALL CENTERS; Phase 1 – Lübeck and Dresden only)

Equipment:

- Urine collection cup (BD, order number: 364941)
- 'Micro tube', 2 ml, PP (Sarstedt, Germany, order number 72.694.006)
- '50 ml conical tube', PP (Sarstedt, Germany, order number: 62.547.254)

The usage of changing materials for urinary sampling affects the comparability of samples/data due to different adsorption of peptides, due to "leakage" of different compounds from the used containers, etc. Hence, please use only the specified containers for sample collection and storage. Upon request, collection containers will be provided.

Method and Patient instructions:

!!Ask female study participants if they are expecting to have their period at the scheduled appointment for collection. If that is the case, the collection has to be rescheduled!!

- Hand out patient questionnaire and instructions for spot-urine collection at least 1 day before urine collection.
 - No food or drink (except water) from midnight the night before urine collection.
 - Have the patient collect their second morning urine, midstream portion (10 ml minimum) and **process samples immediately (Must be frozen within 60 minutes, ideally sooner than that)**. Transfer sample into '50 ml conical tube' and spin (5 min, 500xg, 22 °C). Note that sample has been centrifuged before aliquotting.
 - After collection urine needs to be aliquotted in 5 x 1-2 ml portions in 'micro tubes'.
 - Labelled tubes with unique patient identifier and collection date. Use marker and or labels appropriate for low temperature storage.
 - Freeze sample at -20 °C minimum.
 - Enter information into 'urine collection sheet'. Note time from urine collection to freezing.
- All samples should be frozen as soon as possible and stored at -20/-80 °C until shipment on dry ice. Please contact Stephanie Fliedner to arrange for shipment (contact info below).**

For further information please contact:

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Affix Patient ID
sticker here if
available

Code: _____

Freezer Location:

SPOT URINE COLLECTION INFORMATION

Patient Information:

PMT ID: _____ male female Date of collection: _____

PMT phase 2 3 4 Lübeck and Dresden only: 1

Genetic background:

- | | |
|--------------------------------------|-----------------------------------|
| <input type="checkbox"/> MEN | <input type="checkbox"/> SDHA |
| <input type="checkbox"/> VHL | <input type="checkbox"/> SDHB |
| <input type="checkbox"/> SDHAF2 | <input type="checkbox"/> SDHC |
| <input type="checkbox"/> MAX | <input type="checkbox"/> SDHD |
| <input type="checkbox"/> HIF2A/EPAS1 | <input type="checkbox"/> familial |

- | |
|--|
| <input type="checkbox"/> adrenal PHEO |
| <input type="checkbox"/> extra-adrenal PGL |
| <input type="checkbox"/> head/neck PGL |
| <input type="checkbox"/> solitary tumor |
| <input type="checkbox"/> multiple tumors |

- | |
|---|
| <input type="checkbox"/> metastatic disease |
| <input type="checkbox"/> bone |
| <input type="checkbox"/> liver |
| <input type="checkbox"/> lung |
| <input type="checkbox"/> lymph node |
| <input type="checkbox"/> other tumor:
_____ |

Tumor(s) resected before urine collection date? yes no

Tumor(s)/metastases present at urine collection date: primary tumor(s) metastasis/es

Urinary tract infection at urine collection date? yes no

Urinary tract or kidney abnormalities/diseases/surgeries in the past? yes no

Specify: _____

Urine Information:

Time paged: _____

Time collected: _____

Time frozen: _____

Turbid: yes no

Centrifuged @ 500 x g, 5 min

Aliquots:

____ x ____ ml in micro tubes

Lübeck only:

_____ ml in 50ml tube