

SA PATHOLOGY

Metabolic Laboratory, Biochemical & Community Genetics

COLLECTION OF URINE ON FILTER PAPER FOR MUCOPOLYSACCHARIDE/OLIGOSACCHARIDE ANALYSIS

MATERIALS:

1. For urine: use one square of Whatman 3MM filter/chromatography paper, ~ 8 cm x 8 cm. If Whatman 3MM paper is not available substitute with a similar highly absorbent paper, for example, a newborn screening card.

PRECAUTIONS:

Please take care to avoid contamination of the paper and samples. Wear gloves when handling the papers and work only on a chemically clean surface, for example, Parafilm or a plastic sleeve protector etc. To ensure cleanliness it may be appropriate to clean the surface thoroughly with tissues and HPLC grade water and dry.

COLLECTION PROCEDURE:

Collect at least 10mL of urine (20mL is preferred). If possible, this should be an early morning urine sample (highly coloured sample). If a more dilute sample is used, please ensure at least 20mL urine is spotted.

1. Place the filter paper square onto a clean surface.
2. Label the filter paper square with patient identification (name and date of birth) **using a pencil**.
3. Saturate the filter paper square with freshly collected urine - the paper should be entirely wetted.
4. Allow to dry at room temperature - do not use heat or expose to direct sunlight.
5. Once the filter paper has dried, re-saturate the filter paper and allow it to dry again.
6. Repeat Step 5 until all of the urine has been spotted.
7. When dry, wrap the filter paper inside a clean sheet of photocopy paper. Please ensure adequate separation between samples from different patients. Store in a cool dry place until despatch. Note that plastic wrapping should not be used, as samples can tend to grow moulds, particularly in humid climates.

If further information is required please contact the Metabolic Laboratory, Biochemical & Community Genetics, SA Pathology (at WCH), Adelaide, South Australia.

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