SOP for urine collection

In advance and in preparation for sample collection, Becton Dickinson (BD) Vacutainer® urine collection cups[[1]](#footnote-1) (100mL) will be coated with sodium azide (NaN3) by adding 100 μl of 10% NaN3 and allowed to dry at room temperature using aseptic technique in a biosafety cabinet. Prepared cups can be stored dry in a zip-lock plastic bag at 4°C for up to 6 months.

In advance, also prepare BD Vacutainer urinalysis tubes (8mL; gray top; no additive) by injecting 160µL of 10% NaN3 into each need tube using a 1mL syringe with a 23G needle (to avoid disruption of the tube’s vacuum).

On the day of collection, subjects should be instructed not to exercise and to be well hydrated with a full bladder. Collection should be planned for between 0830-0930 and the patient should be fasting (@ least 12 h).

For ambulatory subjects, collect the sample by clean catch (see below). Collect at least ~50+ ml of urine into the NaN3 coated urine specimen cup, seal immediately and place on ice or in the refrigerator (2-4ºC).

* The cup must be coated with NaN3 prior to urine collection. This is to avoid operator error in case addition of NaN3 is forgotten or incorrectly done.

Midstream Clean Catch Specimen:

* This is the preferred type of specimen for culture and sensitivity testing because of the reduced incidence of cellular and microbial contamination.
* Patients are required to first cleanse the urethral area with a castile soap towelette.

* The urine midstream is then collected into a clean approved container[[2]](#footnote-2)1 (any excess urine should be voided into the toilet). This method of collection can be conducted in the clinic.
* Record date and time of collection.

1. This urine specimen cup, 4oz. (100 mL; sterile) has a screw top lid that contains an integrated transfer device. This allows for the expeditious transfer of urine into a BD urinalysis Vacutainer® tube. [↑](#footnote-ref-1)
2. [↑](#footnote-ref-2)