



## Data Collection Worksheet

**Please Note:** The Data Collection Worksheet (DCW) is a tool to aid integration of a PhenX protocol into a study. The PhenX DCW is not designed to be a data collection instrument. Investigators will need to decide the best way to collect data for the PhenX protocol in their study. Variables captured in the DCW, along with variable names and unique PhenX variable identifiers, are included in the PhenX Data Dictionary (DD) files.

### 1. Specimen Collection, Storage, and Handling Procedures; Criteria for Specimen Rejection

A. Urine specimen should be collected in a urine specimen container that is sterile and prescreened for trace iodine contamination. The optimal amount of specimen required is more than 1.8 mL, minimum volume required for analysis is about 0.8 mL.

B. Specimens should be frozen at  $\leq 20^{\circ}\text{C}$  until analysis. Specimen stability has been demonstrated for 1 year at  $-20^{\circ}\text{C}$ .

C. The criteria for unacceptable specimens are either a low volume ( $<0.8$  mL) or suspected contamination due to improper collection procedures or collection devices. In all cases, a second specimen should be requested.

D. Specimen characteristics that may compromise test results include contamination of urine by contact with dust, dirt, etc. from improper handling.

E. In general, urine specimens should be transported and stored at  $-20^{\circ}\text{C}$ . Once received, they can be frozen at  $-20^{\circ}\text{C}$  for up to 1 year until analysis. Portions of the sample that remain after analytical aliquots are withdrawn and should be refrozen at  $-20^{\circ}\text{C}$ . Samples thawed and refrozen several times are not compromised.

### 2. Reference Ranges (Normal Values)

| Element/Isotope Monitored | Reference Ranges (10 <sup>th</sup> -95 <sup>th</sup> Percentile, mg/L) (weighted, non-creatinine corrected NHANES 2001 & 2002 results) |
|---------------------------|--|
| I-127                     | 41-803   |

Protocol source: <https://www.phenxtoolkit.org/protocols/view/51301>