



PhenX Measure: Hemoglobin Characterization (#830300)

PhenX Protocol: Hemoglobin Characterization (#830301)

Date of Interview/Examination (MM/DD/YYYY): _____

Hemoglobin Characterization

Blood Draw

Blood should be drawn into an appropriate EDTA tube.

Laboratory Assay for Hemoglobin Characterization

The Sickle Cell Disease Scientific and Research Panel (SRSP) notes that there are a number of different assays and instruments (e.g., isoelectric focusing, high performance liquid chromatography, DNA sequencing analysis) that are appropriate to characterize hemoglobin. Once an assay is chosen for a particular study, the SRSP recommends that no changes in the protocol be made over the course of the study. To aid comparability, the SRSP recommends that the investigator record the make and manufacturer of equipment used and the repeatability and coefficients of variation for the assay.

The SRSP notes that investigators should record the assay results for the following hemoglobins (the exact list of hemoglobins that can be distinguished will depend on the assay being used).

- A
- F
- S
- C
- E/A2
- D-Punjab
- G-Philadelphia
- O-Arab