
Lab Dept: Hematology

Test Name: SICKLE SCREEN

General Information

Lab Order Codes: SIK

Synonyms: Hemoglobin S Screen, Blood; Hemoglobin Solubility; Sickle Screen; Sickledex

CPT Codes: 85660 – Sickling of RBC, reduction

Test Includes: Sickle screen reported as positive or negative.

Logistics

Test Indications: Useful to screen for sickling hemoglobins.

Lab Testing Sections: Transfusion Service

Phone Numbers: 612-813-6824

Test Availability: Daily, 24 hours

Turnaround Time: 1 day

Special Instructions: Refrigerate specimen. Should arrive within 5 days of collection. Send in original tube

Specimen

Specimen Type: Whole blood

Container: Lavender (EDTA) top tube or Lavender (EDTA) Microtainer®

Draw Volume: 2 mL blood in a 2 mL Lavender top tube
OR
0.5 mL in a EDTA Microtainer®

Processed Volume: Same as Draw Volume

Collection: Fill to mark on tube or Microtainer®. Mix well by gentle inversion.

Special Processing: Lab Staff: **Do Not** centrifuge. Refrigerate specimen after collection.

Patient Preparation: None

Sample Rejection: Improper tube; clotted sample; underfilled tube; overfilled tube; mislabeled or unlabeled tube

Interpretive

Reference Range: Negative

Critical Values: N/A

Limitations: Several other hemoglobins (e.g., Hemoglobin C Harlem, Hemoglobin C Georgetown, Hemoglobin C Ziguinchor) yield positive results. Positive reactions with dithionite solubility should be confirmed with hemoglobin electrophoresis.

Methodology: Dithionite solubility

References: Harmening DH (1997) Clinical Hematology and Fundamentals of Hemostasis, 3rd ed

Oski and Nathan (1998) Hematology of Infancy and Childhood, 5th ed

Updates: 3/4/2013: Phone reference updated.
8/5/2014: Updated specimen stability/transport under Special Instructions.