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 ${ m I\!R}$
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, 3 rd ed
	Oski and Nathan (1998) Hematology of Infancy and Childhood, 5^{th} ed
Updates:	3/4/2013: Phone reference updated. 8/5/2014: Updated specimen stability/transport under Special Instructions.