


Sickle Cell, Fetal Analysis

Order Name: **Sickle Cell Fetal**
Test Number: **5194951**
Revision Date: **07/17/2023**

TEST NAME	METHODOLOGY	LOINC CODE
Sickle Cell, Fetal Analysis	<u>Polymerase Chain Reaction</u>	

SPECIMEN REQUIREMENTS				
Specimen	Specimen Volume (min)	Specimen Type	Specimen Container	Transport Environment
Preferred	4 mL (3 mL)	Amniotic Fluid	Sterile Screwtop Container	Room Temperature
Alternate 1	See Instructions	See Instructions	See Instructions	Room Temperature
Instructions	<p>Specimen Type: Amniotic fluid or chorionic villus sample (CVS) or cultured cells or cordblood. Direct amniotic fluid or CVS specimen may be submitted; additional culture fee may be applied.</p> <p>Specimen Volume: Amniotic fluid: 10 mL or CVS: 10 mg or amniotic fluid and CVS culture: one confluent T-25 flask or 4 mL cordblood. If amniotic fluid or CVS are cultured at another facility, please maintain back-up cultures.</p> <p>Mininum Volume: Amniotic fluid: 10 mL or CVS: 10 mg or amniotic fluid and CVS culture: one confluent T-25 flask or 3 mL cordblood</p> <p>Collection: Standard sterile techniques. Transfer aseptically to sterile tubes. Amniotic fluid: Discard first 2mL of fluid aspirated to avoid maternal cell contamination.</p> <p>Specimen Storage: Maintain specimen at room temperature. Do not freeze.</p> <p>**THIS TEST IS FOR FETAL TESTING ONLY** It is not intended for routine sickle cell screening. Labcorp clients with 8 digit client account numbers should call 800-345-4363 and Labcorp Genetics & Women's Health clients with 6 digit client /subclient account numbers should call 800-255-7357 to speak with a laboratory genetic coordinator before collecting specimens. In some circumstances, specimens from both parents and other family members may be required. All fetal specimens, including cordblood, must be accompanied by a maternal blood, PurFlock buccal swab kit or Oragene Dx 500 saliva kit for maternal cell contamination (MCC). A separate requisition should be submitted with the maternal specimen.</p>			

GENERAL INFORMATION	
Expected TAT	8 - 14 days If culture is needed, an additional 14-21 days may be required.
Clinical Use	Sickle cell analysis: HbS (c.20A>T, p.Glu7Val) and HbC (c.19G>A, p.Glu7Lys) pathogenic variants are identified by Sanger sequencing, capillary gel electrophoresis and fluorescence detection. Maternal cell contamination analysis (MCC): Analysis of short tandem repeat markers by multiplex fluorescent polymerase chain reaction (PCR) and capillary electrophoresis
Notes	Labcorp Test Code: 482091
CPT Code(s)	81361
Service Provided By	 labcorp Oklahoma, Inc.