

Client: Example Client ABC123 123 Test Drive Salt Lake City, UT 84108 UNITED STATES

Physician: Doctor, Example

## Patient: Patient, Example

DOB	12/21/1969
Gender:	Male
<b>Patient Identifiers:</b>	01234567890ABCD, 012345
Visit Number (FIN):	01234567890ABCD
<b>Collection Date:</b>	00/00/0000 00:00

# Hemoglobin Evaluation With Reflex to Electrophoresis and/or RBC Solubility

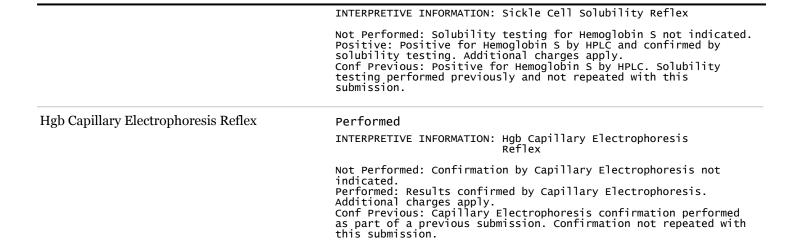
ARUP test code 3017101

Hemoglobin A	Reflexed %	(Ref Interval: 95.0-97.9)		
Hemoglobin A2	Reflexed %	(Ref Interval: 2.0-3.5)		
Hemoglobin F	Reflexed %	(Ref Interval: 0.0-2.1)		
Hemoglobin S	Reflexed %	(Ref Interval: 0.0-0.0)		
Hemoglobin C	Reflexed %	(Ref Interval: 0.0-0.0)		
Hemoglobin E	Reflexed %	(Ref Interval: 0.0-0.0)		
Hemoglobin Other	Reflexed %	(Ref Interval: 0.0-0.0)		
Hemoglobin Evaluation	Reflexed			
	INTERPRETIVE INFORMATION: Hemoglobin Evaluation, with Reflex to Electrophoresis and/or RBC Solubility			
	This test was develo determined by ARUP Li approved by the U.S. performed in a CLIA- clinical purposes.	This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the U.S. Food and Drug Administration. This test was performed in a CLIA-certified laboratory and is intended for clinical purposes.		
Sickle Cell Solubility Reflex	Not Performed			

H=High, L=Low, \*=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:





#### Hemoglobin Evaluation by Capillary Electrophoresis

Hemoglobin A	72.9 % L	(Ref Interval: 94.3-98.5)	
Hemoglobin A2	3.5 %	(Ref Interval: 1.5-3.7)	
Hemoglobin F	0.0 %	(Ref Interval: 0.0-2.0)	
Hemoglobin S	0.0 %	(Ref Interval: 0.0-0.0)	
Hemoglobin C	0.0 %	(Ref Interval: 0.0-0.0)	
Hemoglobin E	23.6 % н	(Ref Interval: 0.0-0.0)	
Hemoglobin Other	0.0 %	(Ref Interval: 0.0-0.0)	
Hemoglobin Evaluation	See Note		

#### H=High, L=Low, \*=Abnormal, C=Critical

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ARUP LABORATORIES | 800-522-2787 | aruplab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director



Impression: Hb E present

Laboratory findings demonstrate the presence of Hb E, a beta chain variant. The percentage of Hb E in heterozygous Hb E ranges from 20-30% and is associated with mild microcytosis and target cells without anemia. Homozygous Hb E has predominantly Hb E without Hb A and usually presents with mild anemia and microcytosis.

Lower values of Hb E are commonly seen in compound heterozygous conditions for Hb E and alpha thalassemia, but co-inheritance of alpha thalassemia trait with Hb E may not be detected by this assay. Because Hb E and alpha thalassemia variants are common in Southeast Asian individuals, molecular confirmation by Alpha Globin (HBA1 and HBA2) Deletion/Duplication (ARUP test #2011622) may define carrier status and assess reproductive risk for alpha thalassemia.

Hb E may produce severe anemia when co-inherited with a beta-zero thalassemia allele. If microcytosis is present and Hb E/beta-plus thalassemia is suspected, Beta Globin (HBB) Sequencing (ARUP test #3004547) is suggested.

Hemoglobin analysis should be offered to the patient's family members to assess carrier status.

Please correlate clinically and in the context of recent transfusion history.

INTERPRETIVE INFORMATION: Hemoglobin Evaluation by Capillary Electrophoresis

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ARUP LABORATORIES | 800-522-2787 | aruplab.com 500 Chipeta Way, Salt Lake City, UT 84108-1221 Jonathan R. Genzen, MD, PhD, Laboratory Director Patient: Patient, Example ARUP Accession: 24-053-121366 Patient Identifiers: 01234567890ABCD, 012345 Visit Number (FIN): 01234567890ABCD Page 3 of 4 | Printed: 2/28/2024 6:35:40 AM 4848



VERIFIED/REPORTED DATES					
Procedure	Accession	Collected	Received	Verified/Reported	
Hemoglobin A	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin A2	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin F	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin S	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin C	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin E	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin Other	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin Evaluation	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Sickle Cell Solubility Reflex	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hgb Capillary Electrophoresis Reflex	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin A	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin A2	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin F	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin S	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin C	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin E	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin Other	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	
Hemoglobin Evaluation	24-053-121366	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00	

### END OF CHART

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