

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 5/4/1956  
**Gender:** Male  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Hemoglobin (Hb) A2 and F by Column with Reflex to Electrophoresis**

ARUP test code 3002644

Hemoglobin A2 **4.8 % H** (Ref Interval: 2.0-3.5)

Hemoglobin F **5.5 % H** (Ref Interval: 0.0-2.1)

REFERENCE INTERVAL: Hemoglobin F

Access complete set of age- and/or gender-specific reference intervals for this test in the ARUP Laboratory Test Directory (aruplab.com).

**Hemoglobin A2 and F Interpretation**

See Note

Impression: Elevated Hb A2 and Slightly High Hb F

An elevated Hb A2 level can be seen in beta thalassemia trait and rarely in unstable hemoglobin variants.

Slightly increased levels of Hb F can be seen in some acquired conditions such as pregnancy, myelodysplastic syndrome, aplastic anemia, paroxysmal nocturnal hemoglobinuria, thyrotoxicosis and certain drugs like hydroxyurea, as well as inherited syndromes constituting HPFH. Please correlate clinically.

INTERPRETIVE INFORMATION: Hemoglobin A2 and F by Column w/Reflex

In laboratory confirmation of a B-thalassemia trait diagnosis, Hgb A2 levels should be considered in conjunction with family history plus laboratory data including serum iron and iron binding capacity, red cell morphology, hemoglobin, hematocrit and mean corpuscular volume (MCV).

Please note that patients with the combination of iron deficiency and B-thalassemia may have normal A2 level. An elevated A2 level cannot be used to screen for B-thalassemia in these cases.

Patient State	HbA2 Level	HbF Level
Heterozygous B-thalassemia	4-9%	1-5 %
Homozygous B-thalassemia	Normal or increased	80-100 %
Heterozygous HPFH	Less than 1.5 %	10-20 %
Homozygous HPFH	Absent	100 %

**Hemoglobin, Capillary Electrophoresis**

Not Performed

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

Unless otherwise indicated, testing performed at:

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Hemoglobin A2	20-244-154253	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hemoglobin F	20-244-154253	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hemoglobin A2 and F Interpretation	20-244-154253	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hemoglobin, Capillary Electrophoresis	20-244-154253	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00

END OF CHART

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

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com  
500 Chipeta Way, Salt Lake City, UT 84108-1221  
Tracy I. George, MD, Laboratory Director

Patient: Patient, Example  
ARUP Accession: 20-244-154253  
Patient Identifiers: 01234567890ABCD, 012345  
Visit Number (FIN): 01234567890ABCD  
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