

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

Physician: Doctor, Example

**Patient: Patient, Example**

**DOB:** 4/13/1983  
**Gender:** Female  
**Patient Identifiers:** 01234567890ABCD, 012345  
**Visit Number (FIN):** 01234567890ABCD  
**Collection Date:** 00/00/0000 00:00

**Hemoglobin (Hb) A[2] and F by Column**

ARUP test code 0050613

Hemoglobin A2 2.5 % (Ref Interval: 2.0-3.5)

Hemoglobin F 0.2 % (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: Normal HPLC evaluation.

This normal HPLC result does not rule out the possibility of alpha globin gene deletions associated with silent carrier status or alpha thalassemia trait. Individuals who carry a rare, Greek beta thalassemia variant often have a normal Hb A2 and may not be identified by this assay. Please correlate with clinical and laboratory findings.

INTERPRETIVE INFORMATION: Hemoglobin A2 and F by Column

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 %

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

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Hemoglobin A2	18-335-400229	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hemoglobin F	18-335-400229	00/00/0000 00:00	00/00/0000 00:00	00/00/0000 00:00
Hemoglobin A2 and F Interpretation	18-335-400229	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