

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

Physician: Doctor, Example

Patient: Patient, Example

DOB: 6/22/1970
Sex: Female
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

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

ARUP test code 3002644

Hemoglobin A2	2.8 %	(Ref Interval: 2.0-3.5)
Hemoglobin F	0.3 %	(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 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	20-241-144332	8/28/2020 11:21:00 AM	8/31/2020 11:58:42 PM	9/2/2020 9:25:00 AM
Hemoglobin F	20-241-144332	8/28/2020 11:21:00 AM	8/31/2020 11:58:42 PM	9/2/2020 9:25:00 AM
Hemoglobin A2 and F Interpretation	20-241-144332	8/28/2020 11:21:00 AM	8/31/2020 11:58:42 PM	9/2/2020 9:25:00 AM
Hemoglobin, Capillary Electrophoresis	20-241-144332	8/28/2020 11:21:00 AM	8/31/2020 11:58:42 PM	9/2/2020 9:25:00 AM

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
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 20-241-144332
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Page 2 of 2 | Printed: 8/4/2022 7:40:58 AM