MAYO CLINIC LABORATORIES

Test Definition: HGBCE

Hb Variant, A2 and F Quantitation,B

Reporting Title: Hb Variant, A2 and F Quantitation,B

Performing Location Rochester

Ordering Guidance:

This test is intended for monitoring purposes, such as the increase in hemoglobin F (Hb F) after therapy, or the levels of hemoglobin variants after transfusion.

If the patient has never been appropriately studied, hemoglobin electrophoresis is necessary (see HBEL1 / Hemoglobin Electrophoresis Evaluation, Blood).

Necessary Information:

Specimen Requirements:

Container/Tube:

Preferred: Lavender top (EDTA)

Acceptable: Yellow top (ACD) or green top (heparin)

Specimen Volume: 4 mL

Collection Instructions:

1. Submit fresh specimen.
2. Send specimen in original tube. Do **not** transfer blood to other containers.

Forms:

1. Metabolic Hematology Patient Information (T810) in Special Instructions
2. If not ordering electronically, complete, print, and send a Benign Hematology Test Request Form (T755) with the specimen.

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Refrigerated (preferred)	10 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC
41927	Hb A	Numeric	%	20572-4
41928	Hb F	Numeric	%	4576-5
41929	Hb A2	Numeric	%	4551-8
41930	Variant 1	Alphanumeric	%	24469-9
41931	Variant 2	Alphanumeric	%	24469-9
41932	Variant 3	Alphanumeric	%	24469-9
41933	HGBCE Interpretation	Alphanumeric		78748-1

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:
83020

Reference Values:
HEMOGLOBIN A
1-30 days: 5.9-77.2%
1-2 months: 7.9-92.4%
3-5 months: 54.7-97.1%
6-8 months: 80.0-98.0%
9-12 months: 86.2-98.0%
13-17 months: 88.8-98.0%
18-23 months: 90.4-98.0%
> or =24 months: 95.8-98.0%

HEMOGLOBIN A2
1-30 days: 0.0-2.1%
1-2 months: 0.0-2.6%
3-5 months: 1.3-3.1%
> or =6 months: 2.0-3.3%

HEMOGLOBIN F
1-30 days: 22.8-92.0%
1-2 months: 7.6-89.8%
3-5 months: 1.6-42.2%
6-8 months: 0.0-16.7%
9-12 months: 0.0-10.5%
13-17 months: 0.0-7.9%
18-23 months: 0.0-6.3%
> or =24 months: 0.0-0.9%

VARIANT 1
0.0

VARIANT 2
0.0

VARIANT 3
0.0