MAYO CLINIC LABORATORIES

Test Definition: HBEL0

Hemoglobin Electrophoresis Summary Interpretation (Non-Orderable)

Overview

Useful For

Only orderable as a reflex. For more information see HBEL1 / Hemoglobin Electrophoresis Evaluation, Blood.

Incorporating and summarizing results into an overall evaluation for the HBEL1 / Hemoglobin Electrophoresis Evaluation, Blood

Testing Algorithm

This test is an additional consultative interpretation that summarizes testing performed as a part of the HBEL1 / Hemoglobin Electrophoresis Evaluation, Blood as well as any pertinent clinical information available for review. This summary is in addition to interpretations that may be provided for each component. This will be provided after testing is complete in order to incorporate any subsequent results into an overall evaluation and may also be used when initial results are abnormal and require lab director review and interpretation.

Method Name

Only orderable as a reflex. For more information see HBEL1 / Hemoglobin Electrophoresis Evaluation, Blood.

Medical Interpretation

NY State Available

Yes

Specimen

Specimen Type

Whole Blood EDTA

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Whole Blood EDTA	Refrigerated		

Clinical & Interpretive

Clinical Information

The evaluation of hemoglobin disorders can be very complex. This can involve abnormalities in the alpha, beta, delta, or gamma chains. Molecular testing is performed to fully evaluate complex situations. A summary interpretation that incorporates all of the testing performed is beneficial to the ordering physician.

Reference Values
Only orderable as a reflex. For more information see HBEL1 / Hemoglobin Electrophoresis Evaluation, Blood.

An interpretive report will be provided.

Interpretation
An interpretive report will be provided that summarizes all testing as well as any pertinent clinical information.

Cautions
No significant cautionary statements.

Clinical Reference
1. Hoyer JD, Hoffman DR. The thalassemia and hemoglobinopathy syndromes. In: McClatchey KD, ed. Clinical Laboratory Medicine. 2nd ed. Lippincott Williams and Wilkins; 2002:866-895
2. Harteveld CL, Higgs DR. Alpha-thalassemia. Orphanet J Rare Dis. 2010;5:13
3. Thein SL. The molecular basis of beta-thalassemia. Cold Spring Harb Perspect Med. 2013;3(5):a011700
4. Crowley MA, Mollan TL, Abdulmalik OY, et al. A hemoglobin variant associated with neonatal cyanosis and anemia. N Engl J Med. 2011;364(19):1837-1843
5. Kipp BR, Roellinger SE, Lundquist PA, Highsmith WE, Dawson DB. Development and clinical implementation of a combination deletion PCR and multiplex ligation-dependent probe amplification assay for detecting deletions involving the human alpha-globin gene cluster. J Mol Diagn. 2011;13(5):549-557. doi:10.1016/j.jmoldx.2011.04.001
6. Hein MS, Oliveira JL, Swanson KC, Lundquist PA. Large deletions involving the beta globin gene complex: genotype-phenotype correlation of 119 cases. Blood. 2015;126(23):3374. doi:10.1182/blood.V126.23.3374.3374

Performance

Method Description
A hematopathologist evaluates all results from the testing performed, and a summary interpretation is provided.

PDF Report
No

Day(s) Performed
Monday through Friday

Report Available
2 to 25 days

Performing Laboratory Location
Mayo Clinic Laboratories - Rochester Main Campus

Test Definition: HBEL0

Hemoglobin Electrophoresis Summary Interpretation (Non-Orderable)

Fees & Codes

Fees

- Authorized users can sign in to Test Prices for detailed fee information.
- Clients without access to Test Prices can contact Customer Service 24 hours a day, seven days a week.
- Prospective clients should contact their account representative. For assistance, contact Customer Service.

Test Classification

Not Applicable

CPT Code Information

83020-26

LOINC® Information

Test ID	Test Order Name	Order LOINC® Value
HBEL0	Hb Electrophoresis Summary Interp	13514-5

Result ID	Test Result Name	Result LOINC® Value
608091	Hb Electrophoresis Summary Interp	13514-5
608117	Reviewed By	18771-6