

## Hemoglobin Electrophoresis Evaluation, Blood

**Test ID:** HBEL1

**Explanation:** On the effective date, ATHAL will be replaced by AGDD for standalone testing and WBDD will be replaced with WBGDD for standalone testing. Alpha-Globin Gene Analysis and Beta Globin Cluster Locus Deletion/Duplication ordered through a blood-only profile (THEV1, REVE2, MEV1, HAEV1, HBEL1, HBELP) will use profile-specific codes, WAGDR and WBGDR.

Current Reflex Tests			
Test ID	Reporting Name	Available Separately	Always performed
HPFH	Hb F Distribution, B	No	No
MASS	Hb Variant by Mass Spec, B	No	No
SDEX	Sickle Solubility, B	Yes	No
IEF	Isoelectric Focusing, B	No	No
UNHB	Hb Stability, B	No	No
ATHAL	Alpha-Globin Gene Analysis	Yes	No
WASQR	Alpha Globin Gene Sequencing, B	Yes (Order WASEQ)	No
WBSQR	Beta Globin Gene Sequencing, B	Yes (Order WBSEQ)	No
WBDDR	Beta Globin Cluster Locus Del/Dup,B	Yes (Order WBDD)	No
WGSQR	Gamma Globin Full Gene Sequencing	Yes (Order WGSEQ)	No
HBEL0	Hb Electrophoresis Summary Interp	No	No

New Reflex Tests			
Test ID	Reporting Name	Available Separately	Always performed
HPFH	Hb F Distribution, B	No	No
MASS	Hb Variant by Mass Spec, B	No	No
SDEX	Sickle Solubility, B	Yes	No
IEF	Isoelectric Focusing, B	No	No
UNHB	Hb Stability, B	No	No
WAGDR	Alpha Globin Clustr Locus Del/Dup,B	Yes (Order AGDD)	No
WASQR	Alpha Globin Gene Sequencing, B	Yes (Order WASEQ)	No
WBSQR	Beta Globin Gene Sequencing, B	Yes (Order WBSEQ)	No
WBGDR	Beta Globin Gene Cluster, Del/Dup,B	Yes (Order WBGDD)	No
WGSQR	Gamma Globin Full Gene Sequencing	Yes (Order WGSEQ)	No
HBEL0	Hb Electrophoresis Summary Interp	No	No

### Current Test Algorithm

One or more of the following molecular tests may be reflexed:

- ATHAL / Alpha-Globin Gene Analysis, Varies
- WASQR / Alpha-Globin Gene Sequencing, Blood
- WBSQR / Beta-Globin Gene Sequencing, Blood
- WBDDR / Beta-Globin Cluster Locus Deletion/Duplication, Blood
- WGSQR / Gamma-Globin Full Gene Sequencing, Varies

For cases with molecular testing added, a preliminary interpretation will be reported that discusses the protein test results. After all test results are finalized, an additional consultative interpretation that summarizes all testing and incorporates subsequent genetic results will be provided.

### New Testing Algorithm

One or more of the following molecular tests may be reflexed:

- WAGDR / Alpha Globin Cluster Locus Deletion/Duplication, Blood
- WASQR / Alpha-Globin Gene Sequencing, Blood
- WBSQR / Beta-Globin Gene Sequencing, Blood
- WBGDR / Beta-Globin Gene Cluster Deletion/Duplication, Blood
- WGSQR / Gamma-Globin Full Gene Sequencing, Varies

For cases with molecular testing added, a preliminary interpretation will be reported that discusses the protein test results. After all test results are finalized, an additional consultative interpretation that summarizes all testing and incorporates subsequent genetic results will be provided.

## Questions

Contact Connie Penz Laboratory Resource Coordinator at 800-533-1710.