

Louisiana Office of Public Health Laboratories

Test Name	Resolve Systems Hemoglobin Kit
PHL Location	Central Laboratory 1209 Leesville Avenue Baton Rouge, Louisiana 70802
CPT Code	83021
Synonyms	IEF
Brief Description of Test	Resolve Systems Hemoglobin Kit designed to separate whole blood, cord blood, or dried blood spot specimen for detection of normal and variant Hemoglobins by Isoelectrofocusing.
Possible Results	HbS, HbC, HbE, HbA, HbFA, HbAF, HbD
Reference Range	FA; AF
Specimen Type	Neonatal Dried Blood Spot
Specimen Container(s):	Shipping Envelopes
Minimum volume accepted:	Minimum of 2 completely filled blood spot circles
Collection Instructions	Blood Specimens should be taken directly from a heel prick onto filter paper and, allowed to dry for at least 3 hours in a horizontal position. <b>See web address below</b> <a href="http://www.ldh.louisiana.gov/index.cfm/page/488">http://www.ldh.louisiana.gov/index.cfm/page/488</a>
Storage and Transport Instructions	Storage of samples in an environment with elevated temperatures and humidity increases the risk of false positive screening results. Transport or mail the specimen to the laboratory with 24 hours of collection.
Causes for Rejection	Specimen > 14 days old, clotted or layered, serum rings, scratched or abraded, insufficient quantity for testing, not completely dry before mailing, blood applied to both sides of the filter paper, diluted discolored or contaminated, collection using capillary tubes containing EDTA, >12 months old, circles not completely filled.
Limitations of the Procedure	Isoelectric focusing separates hemoglobin variants with PI's that differ by 0.01 pH units of greater. Variants with the same pl migrate together. Positive identification of any specific variant may require actual sequencing of the amino acids in the globin chains. Electrophoresis of old samples may yield "aging bands" due to decomposition and/or oxidation of the hemoglobin molecule. Certain pharmacological antineoplastic agents, such as hydroxyurea and histone deacetylase inhibitors, may cause an induction of fetal hemoglobin.
Interfering Substances	N/A

References	Resolve Hemoglobin Kit Package Insert
Additional Information	N/A
Release Date	05/2018
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