

Louisiana Office of Public Health Laboratories

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Test Name	VARIANT nbs Sickle Cell Program
PHL Location	Central Laboratory 1209 Leesville Avenue Baton Rouge, Louisiana 70802
CPT Code	83020
Synonyms	NBS-HPLC
Brief Description of Test	Qualitative screen for the presence of Hemoglobins F,A,S,C,D, and E in eluates of neonatal blood collected on filter paper by HPLC
Possible Results	FA, FS, FAS, FC, FAC, FD, FAD, FE, FAE, FSC, FS, FF
Reference Range	FA; AF
Specimen Type	Neonatal Dried Blood Spot
Specimen Container(s):	Standard letter size manila envelopes can be used for shipping
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. See web address below http://www.lidh.louisiana.gov/index.cfm/page/488
Storage and Transport Instructions	Allow the blood specimen to air-dry in a horizontal position for at least 3 hours at ambient temperature (+18 to +25 °C), not in direct light. Do not heat or stack the specimens during the drying process. Transport or mail the specimen to the laboratory within 24 hours after collection, unless otherwise directed by the screening laboratory.
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	Samples spot not uniformly saturated with blood - sample spots punched too close to the edge of the blood spot - poorly collected and improperly dried specimens - non-eluting blood spot due to deterioration of sample caused by exposure to heat and humidity - contamination of blood spot filter paper with fecal material Heterophilic antibodies in the sample may interfere with the assay (16,17). Hematocrit values in the blood sample may affect the measured hTSH concentration
Interfering Substances	Icterus, as indicated by bilirubin concentrations up to 20mg/dL, does not interfere with the assay. Lipemia, as indicated by triglyceride concentrations up to 6000 mg/dL, does not interfere with the assay.
References	Bio-Rad VARIANTnbs Instruction Manual Package Insert
Additional Information	NA
Release Date	05/2018

Warning: If you have printed a copy of this information please be advised that the Louisiana Office of Public Health Laboratories website and methods are updated on a regular basis. Please check the on-line version of this document to ensure you are relying on the most recent release.

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