Louisiana Office of Public Health Laboratories	
Test Name	Neonatal 17α-OH-progesterone
PHL Location	Central Laboratory 1209 Leesville Avenue Baton Rouge, Louisiana 70802
CPT Code	83516
Synonyms	17-OHP
Brief Description of Test	Quantitative determination of human 17α-OH-progesterone in blood specimens dried on filter paper as an aid in screening newborns for congenital adrenal hyperplasia (CAH).
Possible Results	Normal; and Abnormal
Reference Range	**Weight <1250 grams <150ng/mL=Normal;** **Weight ≥1250 grams <2250 grams <90 ng/mL=Normal** **Weight ≥2250 grams <40ng/mL=Normal**
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 webaddress below http://www.ldh.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 abraided, 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 disks punched too close to the edge of the blood spot - poorly collected and improperly dried specimens - non-eluting blood disk due to deterioration of sample caused by exposure to heat and humidity - contamination of blood spot filter paper with fecal material.
Interfering Substances	Icteric (unconjugated bilirubin ≤342 µmol/L, equivalent to 20mg/d and conjugated bilirubin ≤237µmol/L., equivalent to 20 mg/dL), hemolytic (additional hemoglobin ≤0.5g/dL) and lipemic (Intralipid ≤ 3000 mg/dL at 17-OHP levels of 30 and 70 ng/mL serum, and Intralipid ≤ 750 mg/dL at 17-OHP levels of 150 ng/mL serum) specimens do interfere with the assay.
References	GSP Neonatal 17α-OH- progesterone kit package insert
Additional Information	N/A
Release Date	05/2018
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