

Louisiana Office of Public Health Laboratories

Test Name	T-Cell Receptor Excision Circles determination by QrtPCR
PHL Location	Central Laboratory 1209 Leesville Avenue Baton Rouge, Louisiana 70802
CPT Code	Undetermined at this time
Synonyms	TREC
Brief Description of Test	Quantitative real-time pcr for the detection of TREC (T-Cell Receptor Excision Circles)
Possible Results	Normal TREC; Abnormal (Presumptive Positive) TREC
Reference Range	TREC Cq <34.5= 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 and allowed to dry for at least 3 hours in a horizontal position.
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. Store and transport sample at ambient temperature.
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 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	NA
References	NBS06-A Newborn Blood Spot Screening for Severe Combined Immunodeficiency by Measurement of T-Cell Receptor Excision Circles

Additional Information	NA
Release Date	12/07/2018
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