
Lab Dept: **Anatomic Pathology**

Test Name: **GENE REARRANGEMENT, T CELL, BLOOD**

General Information

Lab Order Codes: GET

Synonyms: Gene-T; T-Cell Receptor Rearrangement

CPT Codes: 81342 – TRG@, gene rearrangement analysis, evaluation to detect abnormal clonal populations

Test Includes: T-cell receptor gamma chain rearrangement by PCR. TCR beta chain by PCR per request. TCR beta, gamma or delta chains by Southern transfer per request at an additional charge.

Logistics

Test Indications: Evaluation for clonal rearrangement of T-cell receptor genes and adjunct in diagnosing lymphomas and leukemias of T-cell lineage.

Lab Testing Section: Anatomic Pathology - Sendouts

Referred to: Fairview University Diagnostic Laboratories (FV Test: GNRTPCR)

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: For best results, specimens should arrive by 2:00 PM Friday.

Turnaround Time: Results are reported within 7-10 days.

Special Instructions: Indicate on request form if Southern transfer technique is desired. Obtain special yellow top tubes (Solution A) from the laboratory.

Specimen

Specimen Type: Whole blood

Container: Yellow top (ACD Solution A) tube
Alternate container: Lavender top (EDTA) tube

Draw Volume: 10 mL (Minimum: 5 mL) blood

Processed Volume: Same as Draw Volume

Collection: Routine blood collection
Contact Molecular Diagnostic Laboratory prior to specimen collection

Special Processing: Store at room temperature. **Do Not freeze.** Contact laboratory prior to shipping. Ship blood at room temperature to arrive within 24-hours. Specimens collected on the weekend should be shipped to FUMC for appropriate storage.

Patient Preparation: None

Sample Rejection: Clotted blood; frozen specimen; mislabeled or unlabeled specimens

Interpretive

Reference Range: Results are reported as negative (germline or no rearrangement noted) or positive (clonal rearrangement indicating clonal cell populations present). Correlations with immunophenotypic, histopathologic, and cytogenetic data will be included with the interpretation of the molecular data when available.

Critical Values: N/A

Limitations: N/A

Methodology: Amplification of DNA and detection by capillary electrophoresis. Confirmation by RFLP (restriction fragment length polymorphism) analysis using Southern transfer technique when appropriate.

References: [Fairview University Diagnostic Laboratory Web Page](#) January 2018

Updates: 2/6/2013: CPT update