



Test Catalog

Diagnostic. Prognostic. Predictive. Predisposition.



ALL Pediatric FISH Panel

Alternative Name

Acute lymphoblastic leukemia

Methodology

FISH

Test Description

Probes: TCF3/PBX1 (E2A/PBX1) t(1;19) | Trisomy or Tetrasomy 4, 6, 10, 17 (Cen 4, Cen 6, Cen 10, Cen 17) | MYC (8q24) | BCR/ABL1/ASS1 t(9;22) | MLL (11q23) | ETV6/RUNX1 (TEL/AML1) t(12;21) | IgH (14q32)

Disease(s): Acute lymphoblastic (lymphocytic) leukemia (B-cell ALL), B lymphoblastic lymphoma (LBL), pediatric
Probes may be ordered separately except Centromeres 4 and 17 are paired, and Centromeres 6 and 10 are paired.

Note: STAT processing is available by request for BCR-ABL1. Note STAT along with MD contact name and phone number to receive STAT results.

Note: CDKN2A (p16) Deletion FISH is also available and may be ordered separately. See details [here](#).

Clinical Significance

The ALL Pediatric FISH Panel is used for the detection of recurrent chromosome abnormalities observed in infants and children with ALL of B-cell lineage and B lymphoblastic lymphoma (LBL). Identification of specific abnormalities helps predict disease aggressiveness and response to therapy. This panel differs from the ALL Adult FISH Panel in that this panel includes probes for ETV6/RUNX1 t(12;21).

Specimen Requirements

- **Bone Marrow Aspirate:** 1-2 mL sodium heparin tube. EDTA tube is acceptable.
- **Peripheral Blood:** 2-5 mL sodium heparin tube. EDTA tube is acceptable.
- **Fresh, Unfixed Tissue:** Tissue in RPMI.
- **Bone Marrow/ Peripheral Blood Smear or Fresh Tissue Touch Preparation Slides:** minimum 8 slides labeled with specimen type.
- **Fluids:** Equal parts RPMI to specimen volume.
- **Fixed Cell Suspension:** A client fixed cell suspension may be submitted for testing as long as it is received in 3:1 Methanol:Glacial Acetic Acid.
- **Paraffin Block or Cut Slides:** Not available.
- **Note:** Please exclude biopsy needles, blades, and other foreign objects from transport tubes. These can compromise specimen viability and yield, and create hazards for employees.

Storage & Transportation

Use cold pack for transport, making sure cold pack is not in direct contact with specimen. For fresh samples: ship same day as drawn whenever possible; specimens <72 hours old preferred.

CPT Code(s)*

88374x8 automated. Codes may differ if manual analysis is performed.

New York Approved

Yes

Level of Service

Technical, Global

Turnaround Time

3-5 days. STAT results for BCR-ABL1, when requested, are reported 12-24 hours from receipt in the NeoGenomics laboratory.

*The CPT codes provided with our test descriptions are based on AMA guidelines and are for informational purposes only. Correct CPT coding is the sole responsibility of the billing party.

Please direct any questions regarding coding to the payor being billed.

NeoGenomics Laboratories is a specialized oncology reference laboratory providing the latest technologies, testing partnership opportunities, and interactive education to the oncology and pathology communities. We offer the complete spectrum of diagnostic services in molecular testing, FISH, cytogenetics, flow cytometry, and immunohistochemistry through our nation-wide network of CAP-accredited, CLIA-certified laboratories.

Committed to research as the means to improve patient care, we provide Pharma Services for pharmaceutical companies, in vitro diagnostic manufacturers, and academic scientist-clinicians. We promote joint publications with our client physicians. NeoGenomics welcomes your inquiries for collaborations. Please contact us for more information.

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