

## Fluorescence in-situ Hybridization (FISH)

### t(12;21)/LSI TEL/AML 1 Translocation

**Specimen:** :

**Clinical Indication:** :

**Result:** :

:

**Interpretation:** :

Interphase nuclei analyzed	Normal nuclei 2 Orange 2 Green signals	Abnormal nuclei 3 Orange 2 Green signals
200		

Cut off for the normal individual is 3%

# PHOTO

**Method:** FISH analysis performed on 200 Interphase nuclei.

**Probe :** LSI TEL(ETV6)(12p13) Spectrum Green / LSI RUNX1(21q22) Spectrum Orange.

**Comments:** Precursor B cell Acute Lymphoblastic Leukemia (ALL) accounts for leukemia in 85% children and 25% adults. Most patients with ALL have abnormal clones. Several chromosomal translocations in paediatric ALL have been detected. The t(12;21)(p13;q22) is associated with TEL / AML 1 fusion and is difficult to detect by conventional cytogenetic studies, however it is successfully detected by FISH. These translocations serve as critical prognostic markers. If TEL / AML 1 fusion is detected, the patient has excellent prognosis and transplantation is rarely consider