

IDENTIFICATION OF T-CELL MONOCLONALITY AMPLI-SET-Lymphoma T Cat. n. 1.401

The AMPLI lymphoma-T kit allows to identify, thanks to Polymerase Chain Reaction (PCR), the rearrangements of γ gene of the T cells receptors (TCR γ) in normal and neoplastic lymphocytes. The primers used are : **TCR\gamma V2-V3-V4-V5-V8-V9-V10-V11-V12** homolugus to every segment TCR γ V and **JGT1-2-3-4** homolugus to "joining (J)" segment. The monoclonality in a T-cell population is shown by the presence of a single amplified fragment after electrophoresis on agarose gel. In the case of a polyclonal population the amplification product will be generated by an high number of rearranged Ig genes that will give rise to fragments of different length. The polyclonality will be shown on agarose gel by the presence of a smear band.

Principle of assay: A) extraction on genomic DNA B) amplification C) rivelation on agarose gel. **Applicability:** on extracted and purified genomic DNA from whole blood samples. **Number of tests:** 45.

REAGENTS AND STORAGE

AMPLIFICATION	
Mix PCR TCR V2, 3, 4, 8, 9	-20°C
Mix PCR TCR V5, 10, 11, 12	-20°C
H ₂ O sterile	-20°C
Taq Polymerase (5U/µl)	-20°C
Control DNA V5-12	-20°C

Stability: over 12 months if correctly stored.

References: Blood **78:**192-196 (1991) J Clin Pathol **45**:770-775.(1992) 4 (1996)

ANALYSIS OF RESULTS

MONOCLONAL PATTERN index of a lymphoproliferative disease MONOCLONAL PATTERN index of a lymphoproliferative disease

The samples generate one or two discrete bands in a range 170 230 bp for TCR V2, 3, 4, 8, 9 and TCR V5, 10, 11, 12.

POLYCLONAL PATTERN index of a normal condition

The samples generate a smear amplified in a range of 170 230 bp for TCR V2, 3, 4, 8, 9 and TCR V5, 10, 11, 12.

TCR V2, 3, 4, 8, 9

1

2 M

TCR V5, 10, 11, 12





polyclonal pattern
 monoclonal pattern
 Marker 100bp ladder

polyclonal pattern
 monoclonal pattern
 pattern policlonale
 Marker 100bp ladder

