

Applications of MyTREC™ Assay Kit

TREC (T-Cell Receptor Excision Circle) is a specific marker of T cells of thymic origin and thymic function can be determined by quantitative analysis of TRECs. The MyTREC™ Assay Kit specifically measures “TCR delta deletion TREC” using quantitative Real-Time PCR.

Quantitative TREC analysis has a demonstrated clinical validity in:

- 1) Detection of Severe Combined Immunodeficiency (SCID) in newborns. SCID is the most severe and fatal variant of Primary Immunodeficiency diseases.
- 2) Determination of thymic output / immune reconstitution following: Hematopoietic Stem Cell Transplantation (HSCT), Antiretroviral therapy.
- 3) Assessing T-Cell recovery following thymus transplants as in DiGeorge Syndrome.
- 4) Evaluating immune competence in patients with primary immunodeficiencies, idiopathic T-Cell deficiencies.
- 5) Assessing thymic function in patients following chemotherapy, immunosuppression, immunotherapy, cancer vaccines.
- 6) Assessment of naïve T-Cell compartment or Recent Thymic Emigrants (RTE) in various immunological contexts.
- 7) Detection of T-Cell lymphopenia.