

Naïve, Memory and Effector T Cell Subsets

General information

Assay principles: This test is usually done in conjunction with lymphocyte subsets surface markers (ID), in which case a separate sample is not required. This assay is used in the investigation of Naïve, Memory, and Effector (NME) T cells in various clinical contexts including autoimmune diseases, immunodeficiency states, T-cell recovery post hematopoietic stem cell transplant, DiGeorge syndrome, and as a measure for T-cell immune competence. These T cells subsets can be identified by their expression of cell-surface markers CD45RA and CD27 and are reported as a % gated on CD4 and CD8.

Assay interferences: Older samples may exhibit loss of surface antigens and therefore the sample should be as fresh as possible.

Laboratory information

Analyte: Naïve, Memory and Effector T Cell Subsets Panel

Units: %

Specimen type: Peripheral blood - EDTA

Frequency of analysis: Dependent on clinical indication

Turnaround times: 1-2 routine working days, Assay run daily Monday to Friday 09:00-15:00

Specimen transport: At room temperature

Additional/special requirements: Note that samples should be received in the laboratory no later than 3pm on a Friday. Samples should be kept at room temperature.

Method: Flow Cytometry

Participation in EQA Scheme: N/A

Clinical information

Interpretation: Use of this panel in the investigation/monitoring of immunodeficiency should be discussed with the appropriate Consultant Immunologist (adult or paediatric).

(Last updated April 2021)