

Flow cytometry Cross Match

Introduction: Flow Cytometer utilizes a fluidics system through which cells as particles are introduced in the cytometer. Using laser optics and detectors the characteristics of each cell is determined.

Donor lymphocytes and recipient serum are incubated. T-Cells (CD3) and B-Cells (CD19) are labeled with markers. Positive and negative controls for both T and b are used for comparison.

Reacted cells are passed through the flow cytometer fluidics system. The reaction of patient serum with T-Cell and B-Cells are individually monitored and documented.

Specimens: Donor lymphocytes can be derived from any of the following sources: Whole blood (Heparin, ACD) or from deceased donor spleen or lymph nodes.

Recipient blood should be drawn in a SST tube (Gold top).

This tube will be spun down to obtain serum.