Flow Cytometry

Introduction to Flow Cytometry

The CELL-DYN Ruby uses flow cytometric techniques to analyze the RBC/PLT, WBC, and NOC populations. This section gives a brief introduction to the principles of flow cytometry[1].

Flow cytometry is a process in which individual cells or other biological particles in a single file produced by a fluid stream are passed through a beam of light. A sensor or sensors measure, by the loss or scattering of light, the physical or chemical characteristics of the cells or particles[2].

Flow cytometry enables the rapid screening of large numbers of cells and provides quantitative cell analysis at the single-cell level. The basic components of a flow cytometer include:

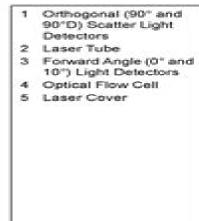A sample collector and transporter
A flow system to focus the sample flow stream
A light source and focusing optics
Light collectors, signal detectors, and polarizers
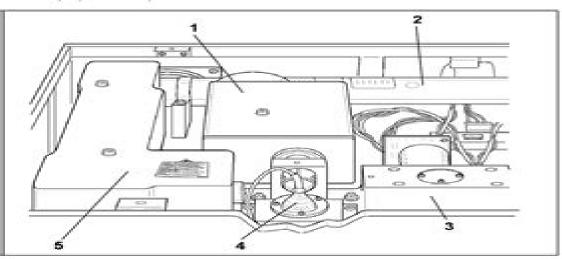Data collection and storage
Data display and analysis

1   Orthogonal (90° and 90°D) Scatter Light Detectors
2   Laser Tube
3   Forward Angle (0° and 10°) Light Detectors
4   Optical Flow Cell
5   Laser Cover

Figure 3.1   Optical Bench

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