

Title (en)

HIGH NUMERICAL APERTURE FLOW CYTOMETER AND METHOD OF USING SAME

Title (de)

VERFAHREN UND DURCHFLUSSZYTOMETER MIT HOHER NUMERISCHER APERTUR

Title (fr)

CYTOMETRE EN FLUX A OUVERTURE NUMERIQUE ELEVEE ET PROCEDE DE SON UTILISATION

Publication

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Application

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Priority

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Abstract (en)

[origin: WO0049387A2] The high numerical aperture flow cytometer of the present invention includes a flow cell and a laser input. The laser input emits a beam of light that is oriented substantially orthogonally to the flow of blood cells through the flow cell such that laser light impinges upon the blood cells as they pass through the flow cell. A portion of the beam from the laser input that impinges upon the blood cells in the flow cell is scattered at a substantially right angle to the beam of laser input ("right angle scatter"). A second portion of the beam from the laser input that impinges upon the cells in the flow cell is scattered at a much lower angle than 90 DEG . This scatter is termed "low angle forward scatter light" and has an angle of from about 2 DEG to about 5 DEG from the orientation of the original beam from laser input. A right angle scatter light detector is oriented to receive the previously mentioned right angle scatter light. A low angle forward scatter light detector is oriented to capture the previously mentioned low angled forward scatter light oriented at about 2 DEG to about 5 DEG beam from laser input.

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