

Title (en)
BACKGROUND-FREE MAGNETIC FLOW CYTOMETRY

Title (de)
HINTERGRUNDFREIE MAGNETISCHE DURCHFLUSSZYTOMETRIE

Title (fr)
CYTOMÉTRIE MAGNÉTIQUE EN FLUX SANS ARRIÈRE-PLAN

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Application
EP 12727846 A 20120612

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Abstract (en)
[origin: WO2012175374A1] The invention relates to an apparatus and a method for magnetic flow cytometry, wherein magnetic units (22, 24) are arranged in a flow channel (10) which is configured, with respect to the channel diameter (100) and the surface condition of the channel inner wall, in such a manner that a flow of a complex suspension can be produced in the flow channel (10) with a laminar flow profile (40). The forces (FM) that can be caused by the magnetic units (22, 24) and the forces (FS) that can be caused by the flow, applied to magnetic markers (26) that are not bound to cells, have the effect of holding back said magnetic markers (26) that are not bound to cells in the front channel section (240) and preventing them from continuing to flow along the flow channel (10) via the cell measuring device (20).

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See references of WO 2012175374A1

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