

Title (en)

SYSTEM FOR IN VITRO DETECTION AND/OR QUANTIFICATION BY FLUOROMETRY

Title (de)

SYSTEM ZUM IN-VITRO-NACHWEIS UND/ODER ZUR QUANTIFIZIERUNG DURCH FLUORMESSUNG

Title (fr)

SYSTEME DE DETECTION ET/OU DE QUANTIFICATION IN VITRO PAR FLUORIMETRIE

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Application

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Abstract (en)

[origin: WO2013045807A1] The invention relates to a system (1) for the in vitro detection and/or quantification, by fluorometry, of at least one analyte in a sample (E) of fluid constituting a biological material, in particular for an immunological test, including a radiation source (10), followed by an optical splitter (13) for splitting the main beam (FP) into a sample-energizing beam (FE) and a reference beam, with a first photodetector means (14) for detecting a fluorescence ray (RF) emitted by the sample and a second photodetector means (15) for the reference beam, said system also including a generator (300) outputting a sinusoidal carrier signal (SNM) and at least one digital demodulation signal (SINE, COSINE), and a digital processing means for processing, by demodulation, the signals from the two photodetector means in order to extract a fluorescence value (VALF) that is characteristic of the amplitude of the fluorescence ray and a second reference value (VALR) that is characteristic of the amplitude of the reference beam. The present invention can be used in automated instruments for in vitro diagnosis in the clinical or industrial fields.

IPC 8 full level

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