

Title (en)  
DEVICE FOR CARRYING OUT BIOCHEMICAL FLUORESCENCE TESTS

Title (de)  
VORRICHTUNG ZUR DURCHFÜHRUNG VON BIOCHEMISCHEN FLUORESZENZTESTS

Title (fr)  
DISPOSITIF SERVANT A EFFECTUER DES ESSAIS DE FLUORESCENCE BIOCHIMIQUES

Publication  
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Application  
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Abstract (en)  
[origin: WO0206836A2] The invention relates to a device for carrying out biochemical fluorescence tests with which the different biochemical interactions can be detected. The aim of the invention is to be able to economically detect a very large number of individual samples with a high level of sensitivity and to obtain a high local resolution. To these ends, the invention enlists the use of a device with which linearly polarized light of a laser diode is directed onto a plate-shaped support via an optical configuration comprised of at least one polarization beam splitter, of a lambda /4 plate and of a focussing optical element. In addition to binary optically detectable information structures, a multitude of fluorophore-marked samples are also discretely arranged on the support that rotates around an axis. Light reflected on the information structures is directed onto an optical detector via the optical configuration in order to detect the information, and fluorescent light emitted by the fluorophore-marked samples is directed onto an optical detector for the fluorescent light via a spectral filter that separates in a wavelength-selective and spatial manner.

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