

Title (en)

METHOD FOR DETECTING AND/OR DETERMINING THE CONCENTRATION OF AT LEAST ONE LIGAND

Title (de)

VERFAHREN ZUM NACHWEISEN UND/ODER ZUM BESTIMMEN DER KONZENTRATION MINDESTENS EINES LIGANDEN

Title (fr)

PROCEDE DE MISE ENEVIDENCE ET/OU DE DETERMINATION DE LA CONCENTRATION D'AU MOINS UN LIGAND

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006040142A2] The invention relates to a method for detecting and/or determining the concentration of a ligand (2) contained in a solution (1) to be analyzed, during which a receptor (5), which can enter into a specific bond with the ligand (2), is immobilized on a semiconductor chip (4) at a test location (3). In order to bind the ligand (2) to the receptor (5), the solution is applied to the test location (3). A luminescence radiation (14) or a color change is generated according to the binding of the ligand (2) to the receptor (5). A radiation measurement signal is picked up with the aid of a radiation receiver (6) integrated in the semiconductor chip (4), whereas the solution (1) and/or an auxiliary liquid that does not contain the luminophore (17) is in contact with the radiation receiver (6). While the generation of luminescence radiation is prevented and the radiation receiver (6) is in contact with the auxiliary liquid and/or with a substitute liquid, a darkness measurement signal is measured for the radiation receiver (6). The radiation measurement signal is compensated for with the darkness measurement signal.

IPC 8 full level

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