

Title (en)

MICROFLUIDIC ASSAYS AND MICROFLUIDIC DEVICES

Title (de)

MIKROFLUID-TESTVERFAHREN UND -VORRICHTUNGEN

Title (fr)

DOSAGES MICROFLUIDIQUES ET DISPOSITIFS MICROFLUIDIQUES

Publication

EP 2032984 A1 20090311 (EN)

Application

EP 05816369 A 20051212

Priority

SE 2005001887 W 20051212

Abstract (en)

[origin: WO2007069940A1] The invention is a method for determining in the amount of an analyte (An) in a sample. The method comprises competitive immunoassays and enzymatic assays in which a soluble product (immune complex and enzymatic product, respectively) is formed. The product is subsequently measured in a measuring zone of a microchannel structure of a microfluidic device. The characteristic features are: A) Competitive assays utilize: a) an An-analogue that exhibits an immobilizing tag, and an anti-An that exhibits a detectable group I, or b) an An-analogue that is a conjugate between an analyte moiety and a label which are bound together via a bridge that preferably is hydrophilic and/or polymeric, and anti-An exhibits an immobilizing tag, and B) Catalytic assays utilize a substrate that: a) exhibits an immobilizing tag, or b) is devoid of an immobilizing tag but contains a group that is transformable to such a tag, C) P is obtained in dissolved form and exhibits the immobilizing tag and the detectable group I, D) MZ contains predisposed solid phase, and B) step (ii) comprises the substeps of: a) immobilizing P selectively to the solid phase, and b) measuring the amount of immobilized P.

IPC 8 full level

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