

Title (en)
ROTATABLE TEST ELEMENT

Title (de)
ROTIERBARES TESTELEMENT

Title (fr)
ÉLÉMENT D'ESSAI ROTATIF

Publication
EP 3524982 A1 20190814 (DE)

Application
EP 19160587 A 20070927

Priority
• EP 06020219 A 20060927
• EP 07818502 A 20070927
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Abstract (en)
[origin: EP1916524A1] A disk-shaped, flat test element (1), rotatable about a (preferably central) axis perpendicular to the plane of the element, has a liquid sample introduction opening (4); a capillary-active region (12) (preferably a porous absorbent matrix) having a first end near and a second end spaced from the axis; and a sample channel (9) extending from near the axis to the first end of the capillary-active region. Independent claims are included for: (1) a variant of the test element, having a sample receiving opening with a sample dosing zone (5) contacting an excess sample zone (7), where a capillary stopper (6) is provided between the sample dosing and excess sample zones; (2) a method for determining an analyte in a liquid sample using the element, involving: applying the sample to the receiving opening; rotating the the element, so that the sample is transported to the first end of the capillary-active zone; slowing or stopping the rotation, so that the sample (or a material recovered from the sample on passage through the element) is sucked from the first end to the second end of the capillary-active zone; and visually or optically determining the analyte in the capillary-active zone or an adjacent zone; and (3) a system for determining an analyte in a liquid sample, comprising a test element as above and a measuring device including a drive for rotating the element and an optical system for evaluating the visual or optical signal from the element.

Abstract (de)
Die Erfindung betrifft ein Testelement, das im Wesentlichen scheibenförmig und eben ist und um eine Achse, die senkrecht zur scheibenförmigen Testelementebene liegt, rotierbar ist, enthaltend eine Probenaufgabeöffnung zur Aufgabe einer flüssigen Probe, eine kapillaraktive Zone, insbesondere eine poröse, saugfähige Matrix, mit einem achsenfernen ersten Ende und einem achsennahen zweiten Ende, und einen Probenkanal, der von einem achsennahen Bereich zum achsenfernen ersten Ende der kapillaraktiven Zone reicht. Weiterhin betrifft die Erfindung ein Verfahren zur Bestimmung eines Analyten mit Hilfe des Testelements.

IPC 8 full level
B01L 3/00 (2006.01); **G01N 33/543** (2006.01)

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