

Title (en)
ASSAY FOR NON-FAMILIAL ALZHEIMER'S DISEASE.

Title (de)
TEST FÜR NICHTFAMILIÄRE ALZHEIMERSCHE KRANKHEIT.

Title (fr)
DEPISTAGE DE LA MALADIE D'ALZHEIMER NON FAMILIALE.

Publication
EP 0649474 A4 19960403 (EN)

Application
EP 93916630 A 19930618

Priority
• US 9305881 W 19930618
• US 91116192 A 19920709

Abstract (en)
[origin: WO9401579A1] A method of assaying for non-familial Alzheimer's disease in a live patient, by preparing washed platelets from the blood of the patient; inserting a pH probe in the platelets in the form of a fluorescent dye such as 2',7'-bis (carboxyethyl)- 5(6)-carboxyfluorescein; inhibiting alkalization of platelet response by blocking Na⁺/H⁺ transfer across the platelet membranes with dimethyl amiloride; stimulating the platelets with (alpha)-thrombin so that the cytoplasm of the stimulated platelets shows a characteristic acidification response or change in cytoplasmic pH; measuring the cytoplasmic pH of the platelets following stimulation; and comparing the measured pH with the corresponding stimulated cytoplasmic pH in platelets from normal individuals.

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C12Q 1/44; **G01N 21/00**

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CPC (source: EP)
G01N 33/5091 (2013.01); **G01N 33/6896** (2013.01); **G01N 2800/2821** (2013.01)

Citation (search report)
• [AD] T.A. DAVIES ET AL.: "Simultaneous flow cytometric measurements of thrombin-induced cytosolic pH and Ca-ion fluxes in human platelets", JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 265, no. 20, - 1 July 1990 (1990-07-01), WASHINGTON DC USA, pages 11522 - 11526, XP000561928
• [T] T.A. DAVIES ET AL.: "NON-AGE RELATED DIFFERENCES IN THROMBIN RESPONSES BY PLATELETS FROM MALE PATIENTS WITH ADVANCED ALZHEIMER'S DISEASE.", MOLECULAR BIOLOGY OF THE CELL, vol. 4, no. SUP, - 11 December 1993 (1993-12-11), NEW ORLEANS LA USA, pages 124A
• See references of WO 9401579A1

Designated contracting state (EPC)
DE FR GB

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