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(54) Title: METHODS FOR DETERMINING PLATELET ACTIVITY WITH ANTIPLATELET COMPOSITIONS

(57) Abstract: Methods, compositions and kits are disclosed for the determination of platelet activity on samples such as whole blood that have been affected by exposure to an antiplatelet therapeutic agent such as, e.g., aspirin or a thienopyridine. A combination is provided in a reaction medium wherein the combination comprises the sample and a particle reagent comprising a GP IIb/IIIa receptor ligand such as fibrinogen covalently attached to particles. The medium further comprises a polyhydroxy aromatic compound and a metal cation. The combination is incubated under conditions for agglutinating the particles. The extent of agglutination of the particles is determined and is related to the platelet function activity of the sample. The methods and compositions have particular application to the detection of platelet sensitivity to therapy using aspirin or a thienopyridine and the assessment of the efficacy of such therapy.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/02102

A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 763 199 A (COLLER BARRY) 9 June 1998 (1998-06-09) abstract claims 1-4	1-28
Y	WO 00 73792 A (ACCUMETRICS INC) 7 December 2000 (2000-12-07) page 23, line 3 -page 24, line 17 -/--	1-28

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/02102

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SMITH JEFFREY W ET AL: "Rapid platelet-function assay: An automated and quantitative cartridge-based method." CIRCULATION, vol. 99, no. 5, 9 February 1999 (1999-02-09), pages 620-625, XP002222102 ISSN: 0009-7322 pages 621-622, section "Methods" abstract; figure 1 ---	1-28
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