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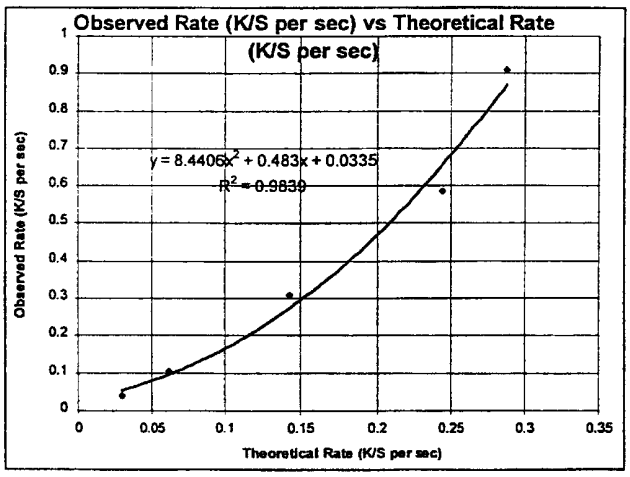
(54) Title: REAGENTS AND METHODS FOR DETECTING A REDUCED COFACTOR



x
Theoretical Rate: The predicted rate based on the sum of the reaction rate catalyzed by diaphorase and PMS individually.
Observed Rate: The reaction rate catalyzed by mixing diaphorase and PMS together.
Conclusion: The reaction rate is accelerated by mixing diaphorase and PMS together.

(57) Abstract: Signal producing systems, reagent compositions, test strips and kits of the same, as well as methods for their use in the detection of an analyte in a sample, are provided. The subject signal producing systems are characterized by having at least a first and second electron transfer agent and a redox indicator, where in many preferred embodiments the systems include a proteinaceous and non-proteinaceous electron transfer agent, e.g. a phenazine compound and a diaphorase. In many preferred embodiments, the subject systems and kits further include at least one of and often both of an enzyme cofactor and an enzyme having an analyte oxidizing activity, e.g. an analyte dehydrogenase. The subject systems, reagent compositions, test strips and kits find use in the detection of a wide variety of analytes in a sample, such as a physiological sample, e.g. blood or a fraction thereof.

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INTERNATIONAL SEARCH REPORT

Int· ·tional Application No
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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12Q1/32 C12Q1/26 C12Q1/00

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)
IPC 7 C12Q

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)
EPO-Internal, PAJ, WPI Data, BIOSIS, EMBASE, MEDLINE, COMPENDEX, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y		16, 19-27,33

X	EP 0 279 988 A (ENZYMATICS INC) 31 August 1988 (1988-08-31) column 4, line 27 - line 55 column 18, line 23 - line 38 claims 1-22	1,2,4-9

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
7 December 2001	18/12/2001

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Tuynman, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
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