

7/8/02
2002047702

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



162162

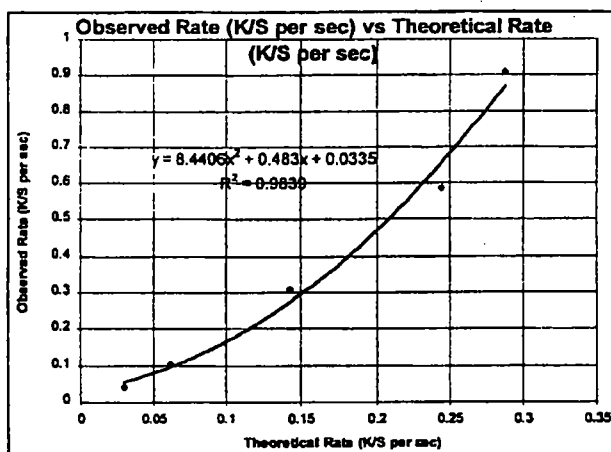
(43) International Publication Date
4 October 2001 (04.10.2001)

PCT

(10) International Publication Number
WO 01/73114 A3

- (51) International Patent Classification⁷: C12Q 1/32, 1/26, 1/00
- (21) International Application Number: PCT/US01/07619
- (22) International Filing Date: 8 March 2001 (08.03.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/537,203 28 March 2000 (28.03.2000) US
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- (88) Date of publication of the international search report:
28 March 2002
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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



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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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