

Title (en)
FLUORESCENCE-BASED ADP DETECTION SYSTEM

Title (de)
ADP-NACHWEISSYSTEM AUF FLUORESZENZBASIS

Title (fr)
SYSTEME DE DETECTION D'ADP A BASE DE FLUORESCENCE

Publication
EP 1704406 A4 20080528 (EN)

Application
EP 05702434 A 20050117

Priority
• IB 2005000290 W 20050117
• US 53673804 P 20040116

Abstract (en)
[origin: WO2005069725A2] A method and kit for detecting a nucleotide, or differentially detecting one nucleotide in a mixture of at least two nucleotides, in a solution comprising the steps of adding a chelator to the solution and detecting a signal created or altered upon the addition of the chelator using a spectroscopic detection system. A lanthanide may also be added to the solution before the detection of a signal. Preferably, the spectroscopic detection system is a fluorescence-based system.

IPC 8 full level
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CPC (source: EP)
G01N 21/6428 (2013.01); **G01N 33/52** (2013.01); **G01N 33/5308** (2013.01); **G01N 2021/6417** (2013.01)

Citation (search report)
• [XY] US 5980861 A 19991109 - HNATOWICH DONALD J [US], et al
• [Y] WO 9638724 A1 19961205 - UNIV TEXAS [US]
• [AD] DIAMANDIS E P ET AL: "EUROPIUM CHELATE LABELS IN TIME-RESOLVED FLUORESCENCE IMMUNOASSAYS AND DNA HYBRIDIZATION ASSAYS", ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol. 62, no. 22, 15 November 1990 (1990-11-15), pages 1149A - 1150A, 1152, XP000165602, ISSN: 0003-2700
• [AD] CHRISTOPOULOS T K ET AL: "ENZYMATICALLY AMPLIFIED TIME-RESOLVED FLUORESCENCE IMMUNOASSAY WITH TERBIUM CHELATES", ANALYTICAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. COLUMBUS, US, vol. 64, no. 4, 15 February 1992 (1992-02-15), pages 342 - 345, XP000261107, ISSN: 0003-2700
• See references of WO 2005069725A2

Citation (examination)
P. PREM ET AL: "The effect of various chelating agents on the mobilization of iron from reticulocytes in the presence and absence of pyridolal isonicotinoyl hydrazone", BBA, vol. 802, 1984, Amsterdam, NL, pages 477 - 489

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2005069725 A2 20050804; WO 2005069725 A3 20060406; CA 2553218 A1 20050804; EP 1704406 A2 20060927;
EP 1704406 A4 20080528; JP 2007518094 A 20070705

DOCDB simple family (application)
IB 2005000290 W 20050117; CA 2553218 A 20050117; EP 05702434 A 20050117; JP 2006548477 A 20050117