



(11) **EP 1 579 222 B8**

(12) **CORRECTED EUROPEAN PATENT SPECIFICATION**

(15) Correction information:
Corrected version no 1 (W1 B1)
Bibliography INID code(s) 84

(48) Corrigendum issued on:
07.01.2009 Bulletin 2009/02

(45) Date of publication and mention
of the grant of the patent:
10.09.2008 Bulletin 2008/37

(21) Application number: **03773761.6**

(22) Date of filing: **17.11.2003**

(51) Int Cl.:
G01N 33/94 (2006.01) G01N 33/53 (2006.01)

(86) International application number:
PCT/FI2003/000875

(87) International publication number:
WO 2004/046733 (03.06.2004 Gazette 2004/23)

(54) **NON-COMPETITIVE IMMUNOASSAY FOR SMALL ANALYTES**

NICHTKOMPETITIVER IMMUNASSAY FÜR KLEINE ANALYTEN

DOSAGE IMMUNOLOGIQUE NON COMPETITIF POUR SUBSTANCES A ANALYSER DE TAILLE
REDUITE

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR**
Designated Extension States:
LT LV

(30) Priority: **18.11.2002 FI 20022048**

(43) Date of publication of application:
28.09.2005 Bulletin 2005/39

(73) Proprietor: **VALTION TEKILLINEN
TUTKIMUSKESKUS
02150 Espoo (FI)**

(72) Inventors:
• **PULLI, Timo**
FIN-00650 Helsinki (FI)
• **HÖYHTYÄ, Matti**
FIN-00100 Helsinki (FI)
• **TAKKINEN, Kristiina**
FIN-02200 Espoo (FI)
• **SÖDERLUND, Hans**
FIN-02940 Espoo (FI)

(74) Representative: **Boije-Backman, Solveig
Magdalena
Kolster Oy Ab,
Iso Roobertinkatu 23,
P.O. Box 148
00121 Helsinki (FI)**

(56) References cited:
US-A- 3 996 345 US-B1- 6 326 159

- **ULLMAN EDWIN F. ET AL.:** 'Anti-immune complex antibodies enhance affinity and specificity of primary antibodies' **PROC. NATL. ACAD. SCI. USA** vol. 90, February 1993, pages 1184 - 1189, XP002974350
- **RYOICHI ARAI ET AL.:** 'Fluorolabeling of antibody variable domains with green fluorescent protein variants: application to an energy transferbased homogeneous immunoassay' **PROTEIN ENGINEERING** vol. 13, no. 5, 2000, pages 369 - 376, XP001035160
- **DATABASE WPI Week 200155, Derwent Publications Ltd., London, GB; Class B04, AN 2001-499659, XP002974351 & JP 2001 174460 A (TOSOH CORP) 29 June 2001**
- **LITTLE MELVYN ET AL.:** 'Generation of a large complex antibody library from multiple donors' **JOURNAL OF IMMUNOLOGICAL METHODS** vol. 231, 1999, pages 3 - 9, XP002941689

Note: Within nine months of the publication of the mention of the grant of the European patent in the European Patent Bulletin, any person may give notice to the European Patent Office of opposition to that patent, in accordance with the Implementing Regulations. Notice of opposition shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

EP 1 579 222 B8

- CHARLTON K. ET AL.: 'The isolation of super-sensitive anti-hapten antibodies from combinatorial antibody libraries derived from sheep' **BIOSENSORS & BIOELECTRONICS** vol. 16, 2001, pages 639 - 646, XP002974352
- BOLGER MICHAEL B. ET AL.: 'Preparation and characterization of antisera and monoclonal antibodies to haloperidol' **IMMUNOLOGICAL INVESTIGATIONS** vol. 14, no. 6, 1985, pages 523 - 540, XP002974353
- [Online] Retrieved from the Internet: URL:http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6X0P-475RFDD-3&_coverDate=03%2F25%2F2003&_alid=430668242&_rdoc=1&_fmt=&_orig=search&_qd=1&_cdi=7220&_sort=d&view=c&_acct=C000049880&_version=1&_urlVersion=0&_userid=987766&md5=0414d89ffcb6a2b62248cfcccfa8aa1c [retrieved on 2006-08-02]

专利名称(译)	小分析物的非竞争性免疫分析		
公开(公告)号	EP1579222B8	公开(公告)日	2009-01-07
申请号	EP2003773761	申请日	2003-11-17
申请(专利权)人(译)	VALTION TEKNILLINEN TUTKIMUSKESKUS		
当前申请(专利权)人(译)	VALTION TEKNILLINEN TUTKIMUSKESKUS		
[标]发明人	PULLI TIMO HOYHTYA MATTI TAKKINEN KRISTIINA SODERLUND HANS		
发明人	PULLI, TIMO HÖYHTYÄ, MATTI TAKKINEN, KRISTIINA SÖDERLUND, HANS		
IPC分类号	G01N33/94 G01N33/53 C07K16/44 G01N33/542 G01N33/68		
CPC分类号	C07K16/44 C07K2317/622 G01N33/542 G01N33/6857 G01N33/946 G01N33/948 G01N33/9486		
优先权	2002002048 2002-11-18 FI		
其他公开文献	EP1579222B1 EP1579222A1		
外部链接	Espacenet		

摘要(译)

本发明涉及用于小分析物的非竞争性免疫测定，其中分析物与两个结合配偶体反应。第一结合配偶体结合分析物以在第一结合配偶体和分析物之间形成复合物，第二结合配偶体结合由第一结合配偶体和分析物形成的复合物。检测在分析物和结合配偶体之间形成的所得复合物。结合配偶体是蛋白质，例如包括抗体片段的抗体。本发明还涉及可用于测定的试剂对和测试试剂盒，以及试剂对的用途及其制备方法。还提供了新的试剂和它们的制备方法。