



(11) **EP 1 875 924 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
13.02.2008 Bulletin 2008/07

(51) Int Cl.:
A61K 38/39^(2006.01) A61P 7/02^(2006.01)

(43) Date of publication A2:
09.01.2008 Bulletin 2008/02

(21) Application number: **07111329.4**

(22) Date of filing: **26.03.2004**

(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 PL PT RO SE SI SK TR**

(30) Priority: **28.03.2003 EP 03075906**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
04723872.0 / 1 608 681

(71) Applicant: **FUJIFILM Manufacturing Europe B.V.
5047 TK Tilburg (NL)**

(72) Inventors:
• **Bouwstra, Jan Bastiaan
3721 AJ Bilthoven (NL)**
• **van Es, Andries Johannes Jozef
4849 BE Dorst (NL)**
• **Toda, Yuzo
Senzu 3-1-17-1104 (JP)**

(74) Representative: **Swinkels, Bart Willem
Nederlandsch Octrooibureau,
P.O. Box 29720
2502 LS The Hague (NL)**

(54) **RGD-enriched gelatine-like proteins for prevention of platelet aggregation**

(57) The invention concerns a cell support comprising an RGD-enriched gelatine that has a more even distribution of RGD sequences than occurring in a natural gelatine and with a minimum level of RGD sequences. More precisely the percentage of RGD sequences related to the total number of amino acids is at least 0.4 and if the RGD-enriched gelatine comprises 350 amino acids or more, each stretch of 350 amino acids contains at least one RGD motif. Preferably the RGD-enriched gelatines

are prepared by recombinant technology, and have a sequence that is derived from a human gelatine or collagen amino acid sequence. The invention also relates to RGD-enriched gelatines that are used for attachment to integrins. In particular the RGD-enriched gelatines of the invention are suitable for prevention of platelet aggregation.

EP 1 875 924 A3



European Patent
Office

PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 63 of the European Patent Convention EP 07 11 1329 shall be considered, for the purposes of subsequent proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP 04 221400 A (FUJI PHOTO FILM CO LTD) 11 August 1992 (1992-08-11) * abstract *	1-10	INV. A61K38/39 A61P7/02
A	EP 0 487 238 A (MERCK & CO INC [US]) 27 May 1992 (1992-05-27) SEQ ID NO:I-V * page 7, line 58 - page 8, line 16 *	1-10	
A	US 6 140 072 A (CAPPELLO JOSEPH ET AL) 31 October 2000 (2000-10-31) SEQ ID NO:66 * column 3, line 10 - line 16 * * column 36, line 3 - line 38 * * column 36, line 62 - column 37, line 7 *	1-10	
A	WO 98/18918 A (COMMW SCIENT IND RES ORG [AU]; VAUGHAN PAUL RICHARD [AU]; GALANIS MARI) 7 May 1998 (1998-05-07) * example 7 *	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			A61K A61P
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search: see sheet C</p>			
Place of search		Date of completion of the search	Examiner
Berlin		10 December 2007	SCHOENWASSER, D
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

11
EPO FORM 1503 03/82 (P04E07)



Claim(s) searched incompletely:
1-10

Reason for the limitation of the search:

Claims 1-10 relate to "RGD-enriched gelatine". The use of the term "gelatine" in the present context is considered to lead to a lack of clarity within the meaning of Article 84 EPC. Considering the statement on page 4, lines 28-30, about the interpretation of the term "gelatine", the search has been carried out for subject-matter of claims 1-10 insofar as "RGD-enriched collagen" instead of "RGD-enriched gelatine" is claimed, since the term "collagen" is considered to be clear in the given context.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 07 11 1329

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

10-12-2007

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 4221400	A	11-08-1992	NONE	

EP 0487238	A	27-05-1992	CA 2055146 A1	14-05-1992
			JP 4305532 A	28-10-1992
			JP 7033337 B	12-04-1995
			US 5179082 A	12-01-1993

US 6140072	A	31-10-2000	US 5723588 A	03-03-1998

WO 9818918	A	07-05-1998	CA 2269801 A1	07-05-1998
			EP 0950098 A1	20-10-1999
			JP 2001502548 T	27-02-2001
			US 6451557 B1	17-09-2002

EPO FORM P0458

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82