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(71) Applicant: **GENEREX PHARMACEUTICALS INC.**
[CA/CA]; 33 Harbour Square, Suite 202, Toronto, Ontario
M5J 2G2 (CA).

(72) Inventor: **MODI, Pankaj**; 519 Golf Links Road, An-
caster, Ontario L9G 4X6 (CA).

(74) Agent: **TORYS LLP**; Maritime Life Tower, 79 Well-
ington Street, Suite 3000, P.O. Box 270, TD Centre, Toronto,
Ontario M5K 1N2 (CA).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
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CZ, DE, DK, DM, DZ, EC, 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,
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GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

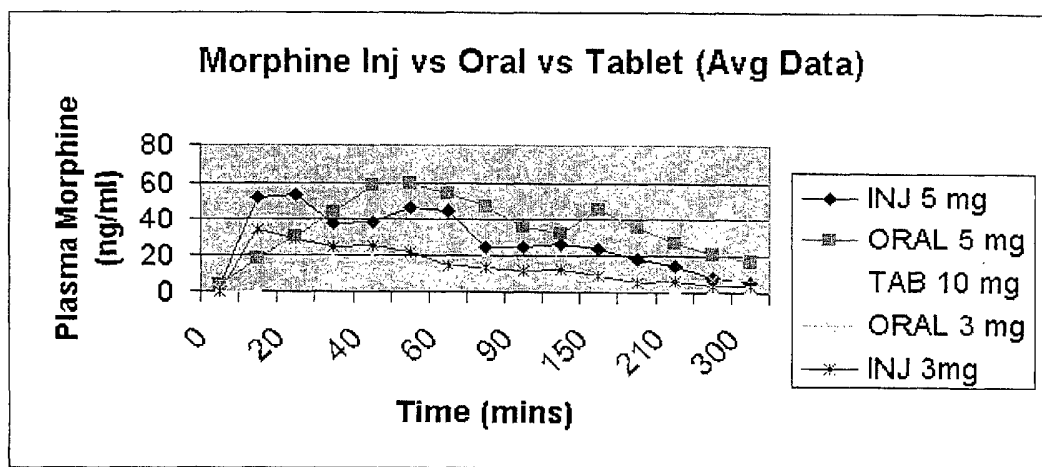
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- with international search report

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21 May 2004

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PHARMACEUTICAL COMPOSITIONS FOR BUCCAL DELIVERY OF PAIN RELIEF MEDICATIONS



(57) Abstract: Pharmaceutical compositions comprising a narcotic analgesic in mixed micellar form are disclosed. The mixed mi-
celles are formed from an alkali metal alkyl sulfate, and other micelle-forming compounds as described in the specification. Micelle
size ranges between about 1 and 10 nanometers. Methods for making and using the compositions are also disclosed. A preferred
method for administering the present composition is through the buccal mucosa of the mouth.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/03914

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K9/107 A61K9/00 A61K31/485 A61K31/4468

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 A61K

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, WPI Data, PAJ, MEDLINE, EMBASE, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 15666 A (GENEREX PHARM INC ;MODI PANKAJ (CA)) 8 March 2001 (2001-03-08) page 3, line 27 -page 4, line 12 page 7, line 2-28 page 8, line 24 -page 9, line 4 page 9, line 9-20 claims 27,34	1-32
X	US 6 312 665 B1 (MODI PANKAJ) 6 November 2001 (2001-11-06) cited in the application column 3, line 30-67 column 4, line 54-67 column 9, line 46-54 examples 2,5 claims 9,10	1-32
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

20 January 2004

Date of mailing of the international search report

30/01/2004

Name and mailing address of the ISA

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

Authorized officer

Vermeulen, S

INTERNATIONAL SEARCH REPORT

International Publication No
PCT/IB 03/03914

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02 45713 A (SEPRACOR INC) 13 June 2002 (2002-06-13) page 8, line 20-23 page 9, line 5-26 page 10, line 2-8 ---	1-32
A	WO 90 07333 A (RIKER LABORATORIES INC) 12 July 1990 (1990-07-12) page 2, last paragraph ---	1-32
A	US 5 451 408 A (MEZEI MICHAEL ET AL) 19 September 1995 (1995-09-19) column 3, line 57 -column 4, line 31 -----	1-32

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB 03/03914

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 28-32 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB 03/03914

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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