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(54) Title: ADMIXTURE FOR INTRAVENOUS ADMINISTRATION OF LINEZOLID AND OTHER ANTIBACTERIAL AGENTS

(57) Abstract: The present invention is an aqueous admixture of linezolid and an antibacterial agent selected from the group consisting of gentamicin, tobramycin, aztreonam, ceftazolin, ceftazidime, piperacillin, ciprofloxacin, ofloxacin, levofloxacin for IV administration.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K45/06 A61K31/70 A61K31/545 A61K31/535 A61P31/04

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	SISSON, THERESA LASHER ET AL: "A pharmacokinetic evaluation of concomitant administration of linezolid and aztreonam" J. CLIN. PHARMACOL. (1999), 39(12), 1277-1282, 1999, XP000991041 page 1278, left-hand column, paragraph 2 page 1278, right-hand column, paragraph 2 ---	1,2,5, 12-14, 27-30
X	JUNGBLUTH, G. L. (1) ET AL: "Linezolid and aztreonam: A pharmacokinetic evaluation of intravenous coadministration in healthy volunteers." CLINICAL INFECTIOUS DISEASES, (1997) VOL. 25, NO. 2, PP. 487. MEETING INFO.: 35TH ANNUAL MEETING OF THE INFECTIOUS DISEASES SOCIETY OF AMERICA, XP000991450 the whole document --- -/--	1,2,5, 12,13, 27-30

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.

"&" document member of the same patent family

Date of the actual completion of the international search

20 March 2001

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18.06.01

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 00/28872

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>NOSKIN G A ET AL: "Successful treatment of persistent vancomycin-resistant Enterococcus faecium bacteremia with linezolid and gentamicin." CLINICAL INFECTIOUS DISEASES, (1999 MAR) 28 (3) 689-90., XP000991539 the whole document</p> <p style="text-align: center;">---</p>	1-3,12, 13,27-30
X	<p>FORD, CHARLES W. ET AL: "In vivo activities of U-100592 and U-100766, novel oxazolidinone antimicrobial agents, against experimental bacterial infections" ANTIMICROB. AGENTS CHEMOTHER. (1996), 40(6), 1508-1513,1996, XP000654572 page 1509, left-hand column, paragraph 4 page 1509, right-hand column, paragraph 4 page 1511, left-hand column, paragraph 4 -page 1512, left-hand column, paragraph 1 page 1512, right-hand column, paragraph 3; table 7</p> <p style="text-align: center;">---</p>	1-3,5, 12-14, 27-30
X	<p>DRESSER L D ET AL: "The pharmacologic and bacteriologic properties of oxazolidinones, a new class of synthetic antimicrobials." PHARMACOTHERAPY, (1998 MAY-JUN) 18 (3) 456-62. REF: 20, XP000991593 page 459, right-hand column, paragraph 2 page 461, left-hand column, paragraph 3</p> <p style="text-align: center;">---</p>	1-3,5, 12,13, 27-30
X	<p>MCCANN J.: "ICAAC meeting highlights newest infection fighters" DRUG TOPICS, (18 OCT 1999) 143/20 (48+51)., XP000991459 page 48, left-hand column, paragraph 4 -right-hand column, paragraph 3</p> <p style="text-align: center;">---</p>	1,2,5, 12,13, 27-30
A	<p>FORD, C. W. ET AL: "In vivo efficacy evaluations of U-100592 and U - 100766 new oxazolidinone antibiotics." ABSTRACTS OF THE INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, (1995) VOL. 35, NO. 0, PP. 151. MEETING INFO.: 35TH INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY SAN FRANCISCO, CALIFORNIA, USA SEPTEMBER 17-20, 19, XP000991456 the whole document</p> <p style="text-align: center;">---</p>	1-3,5, 27,28
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SWEENEY, M. T. (1) ET AL: "In vitro activity of linezolid combined with other antibacteria agents." ABSTRACTS OF THE INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, (1999) VOL. 39, PP. 260. CD-ROM. MEETING INFO.: 39TH INTERSCIENCE CONFERENCE ON ANTIMICROBIAL AGENTS AND CHEMOTHERAPY SAN FRANCISCO, CALIFORNIA, USA SEPTEMBER 26-29, 1, XP000991596 the whole document ---</p>	1-3,5, 27,28
A	<p>CARON F.: "[Treatment of infections due to glycopeptide-resistant enterococci: Usefu data from animal models]. TRAITEMENT DES INFECTIONS A ENTEROCOQUES RESISTANTS AUX GLYCOPEPTIDES: LECONS TIREES DES MODELES ANIMAUX." MEDECINE ET MALADIES INFECTIEUSES, (1997) 27/SPEC. ISS. NOV. (946-953)., XP000991559 page 951, right-hand column, paragraph 4 -page 952, right-hand column ---</p>	1,2,27, 28
A	<p>JACK D.B.: "Doom and gloom over continuing rise in drug-resistant bacteria." DRUG NEWS AND PERSPECTIVES, (1999) 12/7 (438-442)., XP000991556 page 439, left-hand column, paragraph 2 ---</p>	1,12,13, 27,29,30
A	<p>US 5 688 792 A (BARBACHYN MICHAEL R ET AL) 18 November 1997 (1997-11-18) cited in the application column 6, line 40-65; example 5 column 7, line 33-49; claims 1,6,8,12 -----</p>	1,27

INTERNATIONAL SEARCH REPORT

International application No.
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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:

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.:

3-5, (partially) 1,2, 12-18, 27-30

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

1. Claims: 3-5; partially 1, 2, 12-18, 27-30

Aqueous composition and method for use in intravenous treatment of bacterial infections comprising linezolid and a second antibacterial agent which is an aminoglycoside or aztreonam.

2. Claims: 6, 7; partially 1, 2, 12-18, 27-30

Aqueous composition and method for use in intravenous treatment of bacterial infections comprising linezolid and a second antibacterial agent which is a cephalosporin.

3. Claims: 9-11; partially 1, 2, 12-18, 27-30

Aqueous composition and method for use in intravenous treatment of bacterial infections comprising linezolid and a second antibacterial agent which is a quinolone.

4. Claims: 8; partially 1, 2, 12-18, 27-30

Aqueous composition and method for use in intravenous treatment of bacterial infections comprising linezolid and a second antibacterial agent which is a penicillin.

5. Claims: 19-26, 31-34

Aqueous composition, and its method for use in intravenous treatment of bacterial infections, comprising linezolid and a second antibacterial agent, selected from aminoglycosides, cephalosporins, aztreonam, quinolones and penicillins, where the composition is in a container having a container-solution surface material made of at least 50% polyolefin.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5688792 A	18-11-1997	US 5880118 A	09-03-1999
		AU 687866 B	05-03-1998
		AU 7557094 A	27-03-1995
		DE 69421285 D	25-11-1999
		DE 69421285 T	24-02-2000
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