Abstract: This invention provides compositions comprising insulin and an absorption enhancer, methods for treating diabetes mellitus, comprising administering same, and methods for rectal administration of insulin.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61K 38/28; C07K 5/00; C12N 5/06 (2008.04)
USPC - 435/336; 530/303
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(8): A61K 38/28; C07K 5/00; C12N 5/06 (2008.04)
USPC: 435/336; 530/303

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
IPC(8): A61K 38/28; C07K 5/00; C12N 5/06 (2008.04)
USPC: 435/336; 530/303; 435/6, 7, 6, 69.1, 360, 365.1; 530/388.21, 389.2

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPTO WEST (USPT, PGPUB, EPAP, JPAB); supplementary, tolmetin, 'sodium caprate', 'salicylic acid', 'oleic acid', 'lecithin', 'linoleic acid', 'linolenic acid', 'EPA', 'DHA', 'benzyl acid', recombinant, crystalline, insulin, protein, 'EDTA', 'SNAC', 'crystalline insulin proteins', capsule, excipient, red

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2006/0178296 A1 (GOLDBERG, et al.) 10 August 2006 (10.08.2006), [Abstract], para[0004], [0025], [0053], [0102], [0103], [0130], [0151]</td>
<td>1-5, 8, 9</td>
</tr>
<tr>
<td>Y</td>
<td>US 2006/0122097 A1 (NEW) 08 June 2006 (08.06.2006), para[0006], [0016], [0023], [0034], [0035], [0039], [0043], [0045], [0053]</td>
<td>6, 7, 13, 15, 21, 24, 30, 33, 37-53</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

* 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 application or patent 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

Date of the actual completion of the international search
19 September 2008 (19.09.2008)

Date of mailing of the international search report
25 SEP 2008

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PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2007)