Title: SYNTHETIC LUNG SURFACTANT AND USE THEREOF

Abstract: The present invention relates to synthetic lung surfactant compositions that contain one or more of phospholipase-resistant phospho-glycerol derivatives, phospholipase-resistant phospho-choline derivatives, and surface active proteins or peptides, more preferably a combination of at least two or all three of these materials. Novel phospholipase-resistant phospho-glycerol derivatives, phospholipase-resistant phospho-choline derivatives, and surface active peptides are also disclosed herein. Uses of the surfactant compositions of the present invention to treat endogenous surfactant dysfunctional or deficient lung tissue, to prepare synthetic peptides for use in the surfactant compositions, and to deliver therapeutic agents are also disclosed.
### INTERNATIONAL SEARCH REPORT

**International application No.**

PCT/US07/73970

#### A. CLASSIFICATION OF SUBJECT MATTER

<table>
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<th>IPC:</th>
<th>C07F 9/02( 2006.01)</th>
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</table>

**USPC:** 558/70

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)

| U.S. | 558/70 |

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 practicable, search terms used)

#### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tbody>
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<td>X</td>
<td>D</td>
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Special categories of cited documents

- "A" document defining the general state of the art which is not considered to be of particular relevance
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Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search

12 June 2008 (12.06.2008)

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