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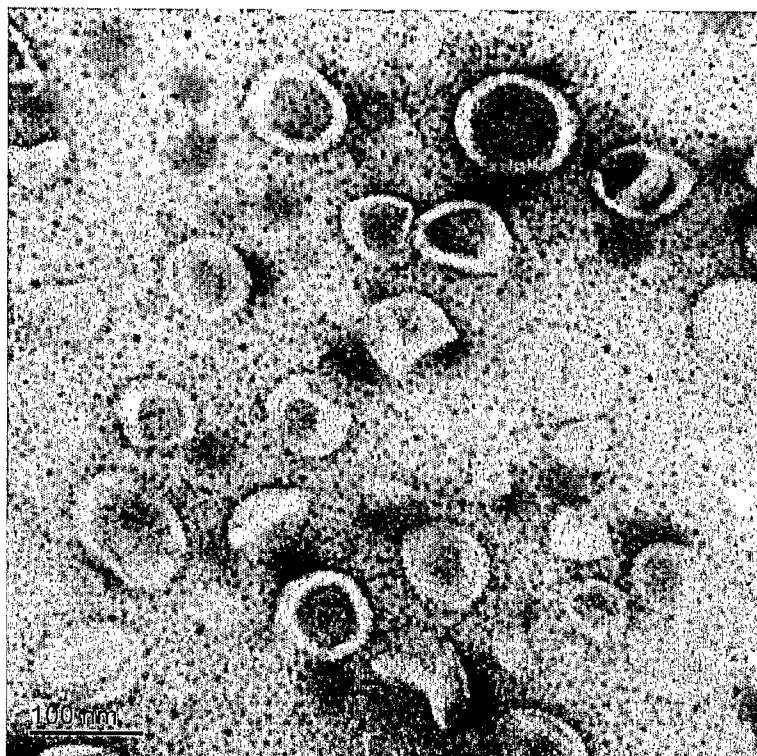
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

**Published:**

- with international search report

[Continued on next page]

(54) Title: METHOD OF STORING NANOPARTICLE FORMULATIONS



(57) Abstract: The present invention is a method for storing a liposome or nanoparticle formulation formed by the combination of at least one phospholipid, at least one surfactant and at least one hydrophilic polymer. The method includes freezing such a formulation, and storing it for a period of at least three days.



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— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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## INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
 INV. A61K9/127 A61K9/19

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)  
 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, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/019913 A (MONTE VERDE S.A.) 11 March 2004 (2004-03-11) claims examples	1-104
X	WO 99/65466 A (DUKE UNIVERSITY) 23 December 1999 (1999-12-23) claims; examples examples 4,5	1-104

Further documents are listed in the continuation of Box C.

See patent family annex.

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- \* & \* document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004019913	A	11-03-2004	AU 2003254647 A1	19-03-2004
			BR 314412 A	19-07-2005
			EP 1536772 A1	08-06-2005
			MX PA05002183 A	08-09-2005
			US 2006078605 A1	13-04-2006
<hr/>				
WO 9965466	A	23-12-1999	AT 286718 T	15-01-2005
			AU 749806 B2	04-07-2002
			AU 4556499 A	05-01-2000
			CA 2335250 A1	23-12-1999
			DE 69923181 D1	17-02-2005
			DE 69923181 T2	16-02-2006
			EP 1089713 A1	11-04-2001
			ES 2238838 T3	01-09-2005
			HK 1035673 A1	29-07-2005
			JP 2002518317 T	25-06-2002
			US 6200598 B1	13-03-2001
			US 6726925 B1	27-04-2004
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