

Title (en)
SPONTANEOUS VESICULATION OF MULTILAMELLAR LIPOSOMES

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EP 0393145 A4 19910911 (EN)

Application
EP 89901663 A 19881222

Priority
• US 13626787 A 19871222
• US 23670088 A 19880825

Abstract (en)
[origin: WO8905636A1] A new method is disclosed for making unilamellar vesicles from multilamellar vesicles. Such vesicles are formed without the use of physical or chemical disruption processes known in the art for forming unilamellar vesicles. The liposomes are incubated at neutral pH at or near the transition temperature of the lipids used, in low ionic strength media such as distilled water. The liposomes may comprise bioactive agents, such as the toxic hydrophobic drugs such as the polyene antibiotic amphotericin B, and may be used in vivo or in vitro. Lipid compositions are preferably a combination of the phospholipids dimyristoylphosphatidylcholine (DMPC) and dimyristoylphosphatidylglycerol (DMPG) in about a 7:3 mole ratio.

IPC 1-7
A61K 9/66; **A61K 37/22**; **B01J 13/02**

IPC 8 full level
A61K 9/127 (2006.01); **A61K 9/133** (2006.01); **B01J 13/02** (2006.01)

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A61K 9/1277 (2013.01)

Citation (search report)
• [Y] US 4663167 A 19870505 - LOPEZ-BERESTEIN GABRIEL [US], et al
• See references of WO 8905636A1

Designated contracting state (EPC)
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US 8804632 W 19881222; CA 586752 A 19881222; EP 89901663 A 19881222; JP 50160989 A 19881222