

The Future of Drug Delivery

Ready-to-use preformulated lyophilized liposomes

Liposomes are one of the most common drug delivery carriers for small molecules and nucleic acid therapeutics.

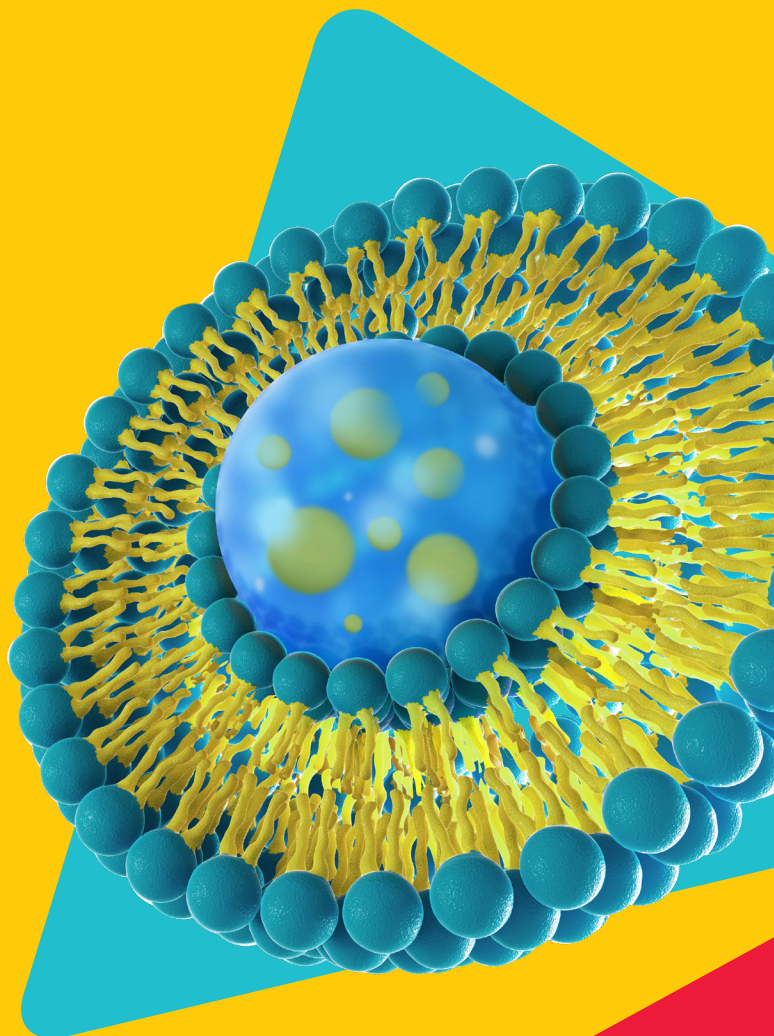
We offer a variety of preformulated liposomes including:

- Cationic liposomes
- Natural liposomes
- PEGylated liposomes

Upon hydration, the liposomes are ready to use for your drug delivery needs.

For a complete list of preformulated lyophilized liposomes visit:

[SigmaAldrich.com/liposomes](https://www.sigmaaldrich.com/liposomes)



Lyophilized Cationic Liposomes

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
DOTAP-based			
DOTAP:DOPC	50:50	100 nm	LDP-501-5MG
			LDP-501-10MG
	40:60	100 nm	LDP-502-5MG
			LDP-502-10MG
	30:70	100 nm	LDP-503-5MG
			LDP-503-10MG
	20:80	100 nm	LDP-504-5MG
			LDP-504-10MG
	10:90	100 nm	LDP-505-5MG
			LDP-505-10MG

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
DOTAP-based			
DOTAP:DOPC	5:95	100 nm	LDP-506-5MG
			LDP-506-10MG
	2:98	100 nm	LDP-507-5MG
			LDP-507-10MG
	1:99	100 nm	LDP-508-5MG
			LDP-508-10MG
	0.5:99.5	100 nm	LDP-509-5MG
			LDP-509-10MG

Lyophilized Anionic Liposomes

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
Phosphatidylglycerol (PG)-based			
DOPG	100	100 nm	LPG-514-5MG
			LPG-514-10MG
DOPG:DOPC	90:10	100 nm	LPG-501-5MG
			LPG-501-10MG
	80:20	100 nm	LPG-502-5MG
			LPG-502-10MG
	70:30	100 nm	LPG-503-5MG
			LPG-503-10MG
	60:40	100 nm	LPG-504-5MG
			LPG-504-10MG
	50:50	100 nm	LPG-505-5MG
			LPG-505-10MG
	40:60	100 nm	LPG-506-5MG
			LPG-506-10MG
	30:70	100 nm	LPG-507-5MG
			LPG-507-10MG
	20:80	100 nm	LPG-508-5MG
			LPG-508-10MG
	10:90	100 nm	LPG-509-5MG
			LPG-509-10MG
	5:95	100 nm	LPG-510-5MG
			LPG-510-10MG
2:98	100 nm	LPG-511-5MG	
		LPG-511-10MG	
1:99	100 nm	LPG-512-5MG	
		LPG-512-10MG	
0.5:99.5	100 nm	LPG-513-5MG	
		LPG-513-10MG	

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
Phosphatidylserine (PS)-based			
DOPS	100	100 nm	LPG-514-5MG
			LPG-514-10MG
DOPS:DOPC	90:10	100 nm	LPG-501-5MG
			LPG-501-10MG
	80:20	100 nm	LPG-502-5MG
			LPG-502-10MG
	70:30	100 nm	LPG-503-5MG
			LPG-503-10MG
	60:40	100 nm	LPG-504-5MG
			LPG-504-10MG
	50:50	100 nm	LPG-505-5MG
			LPG-505-10MG
	40:60	100 nm	LPG-506-5MG
			LPG-506-10MG
	30:70	100 nm	LPG-507-5MG
			LPG-507-10MG
	20:80	100 nm	LPG-508-5MG
			LPG-508-10MG
	10:90	100 nm	LPG-509-5MG
			LPG-509-10MG
	5:95	100 nm	LPG-510-5MG
			LPG-510-10MG
2:98	100 nm	LPG-511-5MG	
		LPG-511-10MG	
1:99	100 nm	LPG-512-5MG	
		LPG-512-10MG	
0.5:99.5	100 nm	LPG-513-5MG	
		LPG-513-10MG	

Lyophilized PEGylated Liposomes

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
PEGylated Anionic-based			
DSPC:Chol:DSPG: PEG2000-DSPE	60:30:5:5	100 nm	LPCG-501-5MG LPCG-501-10MG
DOPC:Chol:DOPG: PEG2000-DOPE	65:30:5:5	100 nm	LPGG-502-5MG LPGG-502-10MG
DOPC:Chol:DSPS: PEG2000-DOPE	65:30:5:5	100 nm	LPSG-501-5MG LPSG-501-10MG
DOPC:Chol:DOPS: PEG2000-DOPE	65:30:5:5	100 nm	LPSG-502-5MG LPSG-502-10MG
PEGylated Cationic-based			
DSPC:Chol:DSTAP: PEG2000-DSPE	55:30:10:5	100 nm	LDPG-501-5MG LDPG-501-10MG
DOPC:Chol:DOTAP: PEG2000-DOPE	55:30:10:5	100 nm	LDPG-502-5MG LDPG-502-10MG

Lyophilized Liposomes from Diether Lipids

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
Diether-based			
16:0 Diether PC	100	100 nm	LDE-504-5MG LDE-504-10MG
18:0 Diether PC	100	100 nm	LDE-505-5MG LDE-505-10MG
18:1 Diether PC	100	100 nm	LDE-506-5MG LDE-506-10MG
16:0 Diether PC: Cholesterol	70:30	100 nm	LDE-510-5MG LDE-510-10MG
18:0 Diether PC: Cholesterol	70:30	100 nm	LDE-511-5MG LDE-511-10MG
18:1 Diether PC: Cholesterol	70:30	100 nm	LDE-512-5MG LDE-512-10MG

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
PEGylated Neutral-based			
HSPC:Chol: PEG2000-DSPE	60:30:5:5	100 nm	LPCG-501-5MG LPCG-501-10MG
DOPC:Chol: PEG2000-DOPE	65:30:5:5	100 nm	LPGG-502-5MG LPCG-502-10MG
DOPC:Chol:DSPS: PEG2000-DOPE	65:30:5:5	100 nm	LPCG-504-5MG LPCG-504-10MG

Lyophilized Liposomes from Unsaturated Lipids

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
Unsaturated Phosphatidylcholine (PC)-based			
16:0-18:2 PC	100	100 nm	LUP-513-5MG LUP-513-10MG
16:0-20:4 PC	100	100 nm	LUP-514-5MG LUP-514-10MG
18:0-:18:1 PC	100	100 nm	LUP-515-5MG LUP-515-10MG
18:0-18:2 PC	100	100 nm	LUP-516-5MG LUP-516-10MG
18:0-20:4 PC	100	100 nm	LUP-517-5MG LUP-517-10MG
18:1-14:0 PC	100	100 nm	LUP-518-5MG LUP-518-10MG
18:1-16:0 PC	100	100 nm	LUP-519-5MG LUP-519-10MG
18:1-18:0 PC	100	100 nm	LUP-520-5MG LUP-520-10MG

See next page for
Lyophilized Liposomes
from Unsaturated Lipids

Lyophilized Liposomes from Unsaturated Lipids

Lipid Composition	Molar Ratio	Mean Size	Cat. No.
Natural Phosphatidylcholine (PC)-based			
Brain PC	100	100 nm	LPC-601-5MG
			LPC-601-10MG
Egg PC	100	100 nm	LPC-602-5MG
			LPC-602-10MG
Heart PC	100	100 nm	LPC-603-5MG
			LPC-603-10MG
Liver PC	100	100 nm	LPC-604-5MG
			LPC-604-10MG
Soy PC	100	100 nm	LPC-605-5MG
			LPC-605-10MG
Brain PC:Cholesterol	70:30	100 nm	LPC-606-5MG
			LPC-606-10MG
Egg PC:Cholesterol	70:30	100 nm	LPC-607-5MG
			LPC-607-10MG
Heart PC:Cholesterol	70:30	100 nm	LPC-608-5MG
			LPC-608-10MG
Liver PC:Cholesterol	70:30	100 nm	LPC-609-5MG
			LPC-609-10MG
Soy PC:Cholesterol	70:30	100 nm	LPC-610-5MG
			LPC-610-10MG



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