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## Preformed Liposome Reagent Products

AbboMax offers various preformed liposome reagents with a large number of common lipid compositions to support the needs of research organizations involved in liposome drug delivery. Our high quality preformed liposomes are prepared by experienced formulators using the highest quality lipids only from premier suppliers. Our products are easy to use to save your time, cost and improve the productivity and reliability of your research. You can trust our products for batch-to-batch consistency and reproducibility. All products are sterile-filtered and properly packaged in vials to ensure long-term stability when stored refrigerated.

<b>Plain Non-PEG Liposomes</b>								
Hydration buffer: 20mM HEPES, 10% sucrose, pH 7.0 External buffer: 20mM HEPES, 10% sucrose, pH 7.0 Contain 5-10% ethanol which can be easily removed by dialysis if necessary								
Catalog Number	Description	Lipid Composition	Internal buffer	External buffer	Lipid Concen	Mean Particle Size	Volume	Unit Price (US\$)
10101-0010	Preformed DMPC 100nm plain liposomes	DMPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$199.00
10101-0100	Preformed DMPC 100nm plain liposomes	DMPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$995.00
10102-0010	Preformed DPPC 100nm plain liposomes	DPPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$209.00
10102-0100	Preformed DPPC 100nm plain liposomes	DPPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,045.00
10103-0010	Preformed DSPC 100nm plain liposomes	DSPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$214.00
10103-0100	Preformed DSPC 100nm plain liposomes	DSPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,070.00
10104-0010	Preformed 100nm liposome with 33% CHOL	DSPC/CHOL (67/33 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$217.00
10104-0100	Preformed 100nm liposome with 33% CHOL	DSPC/CHOL (67/33 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,085.00
101045-0010	Preformed 80nm liposome with 33% CHOL	DSPC/CHOL (67/33 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	80 ± 10	10	\$236.00
101045-0100	Preformed 80nm liposome with 33% CHOL	DSPC/CHOL (67/33 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	80 ± 10	100	\$1,180.00
10105-0010	plain liposomes with 45 mol% CHOL	HSPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$198.00
10105-0100	plain liposomes with 45 mol% CHOL	HSPC/CHOL (50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$990.00
10106-0010	liposomes with 45 mol% CHOL	EPC/CHOL(50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$195.00
10106-0100	liposomes with 45 mol% CHOL	EPC/CHOL(50/45 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$975.00
10107-0010	liposomes with 33 mol% CHOL	EPC/CHOL(67/33 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	80 ± 10	10	\$229.00
10107-0100	liposomes with 33 mol% CHOL	EPC/CHOL(67/33 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	80 ± 10	100	\$1,145.00
10108-0010	Preformed DOPC plain liposomes	DOPC	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	10	\$209.00
10108-0100	Preformed DOPC plain liposomes	DOPC	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	100	\$1,045.00
10109-0010	Preformed POPC plain liposomes	POPC	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	10	\$178.00
10109-0100	Preformed POPC plain liposomes	POPC	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	100	\$890.00

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## Plain PEGylated Liposomes

Plan liposomes composed of a bilayer-forming phospholipid and mPEG-DSPE with or without CHOL  
CHOL; Cholesterol

Hydration buffer: 20mM HEPES, 10% sucrose, pH 7.0

External buffer: 20mM HEPES, 10% sucrose, pH 7.0

Contain 5-10% ethanol which can be easily removed by dialysis if necessary

mPEG2000-DSPE: 1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[methoxy(polyethylene glycol)-2000]

Catalog #	Description	Lipid Composition	Internal buffer	External buffer	Lipid Concen	Mean Particle size	Volume (mL)	Unit Price (US\$)
10201-0010	Preformed DMPC 100nm plain PEGylated liposomes	DMPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$263.00
10201-0100	Preformed DMPC 100nm plain PEGylated liposomes	DMPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,315.00
10202-0010	Preformed DPPC 100nm plain PEGylated liposomes	DPPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$275.00
10202-0100	Preformed DPPC 100nm plain PEGylated liposomes	DPPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,375.00
10203-0010	Preformed DSPC 100nm plain PEGylated liposomes	DSPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$279.00
10203-0100	Preformed DSPC 100nm plain PEGylated liposomes	DSPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,395.00
10204-0010	Preformed HSPC 100nm plain PEGylated liposomes	HSPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	10	\$279.00
10204-0100	Preformed HSPC 100nm plain PEGylated liposomes	HSPC/CHOL/mPEG2000-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	100 ± 10	100	\$1,395.00
10205-0010	PEGylated liposomes with long chain 20:0PC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	120 ± 10	10	\$294.00
10205-0100	PEGylated liposomes with long chain 20:0PC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	120 ± 10	100	\$1,470.00
10206-0010	PEGylated liposomes with long chain 22:0PC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	60	120 ± 10	10	\$309.00
10206-0100	PEGylated liposomes with long chain 22:0PC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	60	120 ± 10	100	\$1,545.00
10207-0010	PEGylated liposomes with long chain 24:0PC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	60	140 ± 10	10	\$329.00
10207-0100	PEGylated liposomes with long chain 24:0PC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	60	120 ± 15	100	\$1,645.00
10208-0010	PEGylated liposomes with PHSPC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	10	\$266.00
10208-0100	PEGylated liposomes with PHSPC	0-DSPE (50/45/5 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	100	\$1,330.00
10209-0010	Preformed PEGylated DOPC liposomes	DOPC/mPEG2000-DSPE (98:2 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	10	\$256.00
10209-0100	Preformed PEGylated DOPC liposomes	DOPC/mPEG2000-DSPE (98:2 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	100	\$1,280.00
10209-0010	Preformed PEGylated POPC liposomes	POPC/mPEG2000-DSPE (98:2 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	10	\$218.00
10209-0100	Preformed PEGylated POPC liposomes	POPC/mPEG2000-DSPE (98:2 mol/mol)	20mM HEPES, 10% sucrose, pH=7	20mM HEPES, 10% sucrose, pH=7	80	110 ± 20	100	\$1,090.00

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## Liposomes with Ammonium Sulfate

Liposomes with transmembrane ammonium gradient are useful for actively loading weakly basic compounds. These products are shipped to users with the external ammonium sulfate unexchanged, which is the preferred by most researchers, since it gives them the opportunity to control the establishment of the ammonium gradient. The ammonium gradient could be easily established by dialysis or diafiltration against a desired buffer solution with a higher pH (typically pH 5-7).

Catalog #	Description	Lipid Composition	Internal buffer	External buffer	Lipid Concentration	Mean Particle size (nm)	Volume (mL)	Unit Price (US\$)
20201AS-0010	liposomes with transmembrane	DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$299.00
20201AS-0100	liposomes with transmembrane	DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,495.00
20202AS-0010	liposomes with transmembrane	DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$299.00
20202AS-0100	liposomes with transmembrane	DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,495.00
20203AS-0010	liposomes with transmembrane	DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$299.00
20203AS-0100	liposomes with transmembrane	DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,495.00
20204AS-0010	liposomes with transmembrane	20:0PC/mPEG2000-DSPE (95/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$336.00
20204AS-0100	liposomes with transmembrane	20:0PC/mPEG2000-DSPE (95/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,680.00
20205AS-0010	liposomes with transmembrane	22:0PC/mPEG2000-DSPE (95/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$349.00
20205AS-0100	liposomes with transmembrane	22:0PC/mPEG2000-DSPE (95/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,745.00
20206AS-0010	preformed LUV ready for loading weak base	DSPE (56.2/38.5/5.3 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$282.00
20206AS-0100	preformed LUV ready for loading weak base	DSPE (56.2/38.5/5.3 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,410.00
20207AS-0010	preformed LUV ready for loading weak base	0-DSPE (56/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	10	\$266.00
20207AS-0100	preformed LUV ready for loading weak base	0-DSPE (56/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	80	100 ± 10	100	\$1,330.00
20208AS-0010	liposomes with transmembrane	0-DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	60	120 ± 15	10	\$349.00
20208AS-0100	liposomes with transmembrane	0-DSPE (50/45/5 mol/mol)	Ammonium Sulfate (250 mM)	Ammonium Sulfate (250 mM)	60	120 ± 15	100	\$1,745.00

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## Transfection Reagents: Cationic Liposomes

**Preformed cationic liposomes are prepared by sonication. They are ready to use for preparing nucleic acid complexes. Please do not hesitate to contact us if you would like to order specific types of cationic liposomes that is not shown in the catalog.**

**Lipid Concentration: 10 mM  
Liposomes are prepared in Milli-Q water**

Catalog #	Description	Lipid Composition	Internal buffer	External buffer	Lipid Concentration	Mean Particle size (nm)	Volume (mL)	Unit Price (US\$)
50101-0001	Cationic liposomes for lipoplex	DMTAP/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	1	\$83.00
50101-0005	Cationic liposomes for lipoplex	DMTAP/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	5	\$309.00
50101-0010	Cationic liposomes for lipoplex	DMTAP/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	10	\$519.00
50102-0001	Cationic liposomes for lipoplex	DOTAP/DOPE ((50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	1	\$84.00
50102-0005	Cationic liposomes for lipoplex	DOTAP/DOPE ((50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	5	\$314.00
50102-0010	Cationic liposomes for lipoplex	DOTAP/DOPE ((50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	10	\$523.00
50103-0001	Cationic liposomes for lipoplex	DDAB/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	1	\$81.00
50103-0005	Cationic liposomes for lipoplex	DDAB/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	5	\$304.00
50103-0010	Cationic liposomes for lipoplex	DDAB/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	10	\$509.00
50104-0001	Cationic liposomes for lipoplex	DODAP/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	1	\$83.00
50104-0005	Cationic liposomes for lipoplex	DODAP/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	5	\$312.00
50104-0010	Cationic liposomes for lipoplex	DODAP/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	10	\$519.00
50105-0001	Cationic liposomes for lipoplex	DC-CHOL/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	1	\$84.00
50105-0005	Cationic liposomes for lipoplex	DC-CHOL/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	5	\$314.00
50105-0010	Cationic liposomes for lipoplex	DC-CHOL/DOPE (50/50 mol/mol)	H <sub>2</sub> O	H <sub>2</sub> O	10	100 ± 10	10	\$519.00

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