

## CERTIFICATE OF ANALYSIS

Caution: The product is for research only, not for human use!

DESCRIPTION: Plain HSPC/CHOL/mPEG2000-DSPE Liposomes  
CATALOGUE #: F10204  
BATCH #: 09231101  
PRODUCT VOLUME: 100mL (5x20mL)  
DATE OF PRODUCTION: 09/25/2011  
LIPID COMPOSITION: HSPC/CHOL/mPEG2000-DSPE (50:45:5 mol/mol)  
ACTIVE: None  
PRODUCTION METHOD: Hydration of sucrose/ethanolic lipid solution and extrusion through polycarbonate membranes

### ANALYTICAL DATA:

Total Lipid Concentration:  $60.0 \pm 2.0$  mM ( $42.7 \pm 1.5$  mg/mL) (Stewart assay)  
HSPC:  $30.0 \pm 1.0$  mM ( $23.7 \pm 0.9$  mg/mL)  
CHOL:  $27.0 \pm 1.0$  mM ( $10.5 \pm 0.4$  mg/mL)  
mPEG2000-DSPE:  $3.0 \pm 0.1$  mM ( $8.4 \pm 0.3$  mg/mL)  
Hydration solution: 10% sucrose, 20mM HEPES, 10 % ethanol, pH 7.0  
Final buffer solution: 10% sucrose, 20mM HEPES, < 7.0 % ethanol, pH 7.0  
Particle size (by ZetaPALS): Mean diameter:  $85.0 \pm 0.2$  nm; Half-width:  $21.2 \pm 3.8$  nm Polydispersity: 0.07

Form/Color: Translucent, off white and free flow liposomal dispersion,  
no visible particles/aggregates with naked eye or under microscope

Stability: Product is sterile filtered (0.2µm). Free from bacteria growth for 3 month in original unopened vials stored at 2-8°C.

### STORAGE AND HANDLING:

Store in closed vials at 2-8°C. DO NOT FREEZE. Warm to room temperature before use. Visually exam the uniformity of the product. Mix before opening the vial. Close opened containers immediately.

HSPC: fully hydrogenated phosphatidylcholine (SPC-3 from Lipoid)

CHOL: cholesterol (Lipoid)

mPEG2000-DSPE: 18:0 PEG2000 PE:1,2-distearoyl-sn-glycero-3-phosphoethanolamine-N-[methoxy(polyethylene glycol)-2000](ammonium salt)

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