HSPC/CHOL/mPEG2000-DSPE(56.2/38.5/5.3) Liposomes with Ammonium Gradient (100nm)

Code No. : F20204AB
Size : 10 ml

Product Description

HSPC/CHOL/mPEG2000-DSPE (56.2/38.5/5.3) Liposomes with Ammonium Gradient (100nm)

HSPC/CHOL/mPEG2000-DSPE (56.2/38.5/5.3 mol/mol) liposomes with ammonium gradient is the original lipid copmposition used for the commercial product Doxil(R) (STEALTH liposomal doxorubicin HCl). This lipid composition is a formulator's choice in pharmaceutical/biotech industry for both formulation feasibility studies and liposomal product development. HSPC is essentially equivalent to DSPC (HSPC contains about 85 % DSPC and 15% DPPC). The main advantages for using HSPC are its lower cost and availability of GMP quality raw materials. HSPC material used at FormuMax is from one of the world's premier lipid suppliers.

This liposomes has the same lipid composition as used in the commercial STEALTH liposomes, DOXIL® (doxorubicin HCl liposome injection). Note the larger liposome particle size of 100nm compared to 85nm for Doxil®. If you want an ammomium liposmes more comparable to Doxil®, please see F20204AS.

Specifications

Product code: F20204AB

Lipid composition: HSPC/CHOL/mPEG2000-DSPE (56.2:38.5:5.3 mol/mol)

Mean particle size: 100 nm (95 - 120 nm)

Lipid concentration: 60 mM (60 - 70 mM)

Hydration buffer (loading battery): 250 mM and 350 mM ammonium sulfate

External solution: 10% sucrose, pH 5.5 -6.0

Storage and Stability: stable for 3 months when stored in refrigerator (2-8 degree C).
Use within 2 weeks after first use.

HSPC: hydrogenated phosphatidylcholine (Soy)

CHOL: cholesterol

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

SMC Sambo