

CERTIFICATE OF ANALYSIS**Product Is Cytotoxic And Handle With Care! Product Is For Research Only, Not For Human Use!**

DESCRIPTION: Doxoves[®] Liposomal Doxorubicin HCl
CATALOGUE #: F30204B-D
BATCH #: 06281201
DATE OF PRODUCTION: 07/02/2012
LIPID COMPOSITION: HSPC/CHOL/mPEG2000-DSPE (56.3:38.4:5.3 mol%)
ACTIVE: Doxorubicin HCL

ANALYTICAL DATA:

Lipid concentration: 40.8 ± 1.1 mM (30.3 ± 0.8 mg/mL) (Stewart assay)
Drug concentration: 4.01 ± 0.07 mg/mL (UV)
Free Drug concentration: 0.03 mg/mL (filtration/UV)
Drug encapsulation efficiency: > 99 % (calculated from free drug and total drug concentrations)
Hydration solution (battery): 250 mM ammonium sulfate
External buffer solution: 10 wt% sucrose, 10mM histidine pH 6.5
Particle size (ZetaPALS): Mean diameter: 84.0 ± 0.4 nm; Half-width: 14.9 ± 1.1 nm
Polydispersity: 0.03 ± 0.01
Zeta Potential (ZetaPALS): - 16.7 ± 1.0 mV (measured in 1mM NaCl)

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

Stability: Product is sterile filtered (0.2µm) and filled in autoclaved vials. Free from bacteria growth for 6 month for unopened vials stored at 2 – 8 °C.

STORAGE, HANDLING AND CLEANING:

- Store refrigerated (2-8 deg C). **Avoid freezing.** Warm to room temperature before use. Visually exam the uniformity of the product. Mix before opening the vial.
- **Method of cleaning:** alcohol/bleach/detergent mixture.

HSPC: fully hydrogenated phosphatidylcholine

CHOL: cholesterol

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

FormuMax Scientific Inc.

E-mail: service@FormuMax.com

Home page: www.FormuMax.com

4062 Fabian Way, Palo Alto, CA 94303

Tel: (650) 856-7948

Fax: (408) 465-5338