



Clophosome® - Neutral Liposomal Clodronate for Macrophage Depletion

Clophosome®, neutral clodronate liposomes, offers highly efficient *in vivo* macrophage depletion. Clodronate molecules are encapsulated in small LUV liposomes for superior activity, physical and chemical stability, and convenience of use. It is formulated to exceptionally high clodronate/lipid ratio and the encapsulation efficiency of clodronate is above 90%. Clophosome liposomes remain homogenous and free-flow after long term storage. The product is suitable for dosing with various routes including intravenous, intraperitoneal, subcutaneous, intranasal, intratracheal etc. A starting dose of 0.2 mL (*i.v.* or *i.p.*) for 20-25g animal body weight is recommended. Optimization is recommended for specific applications.

ALWAYS CLEAN WITH ALCOHOL AND DO NOT REUSE THE NEEDLES

Animals become sensitive to infection when macrophages are depleted and the immune system is compromised. It is extremely important to conduct the injection in a clean environment particularly for long-term depletions. Withdraw the liposomes through the rubber stopper (clean with alcohol first) with a new sterile needle. Always clean the injection site with alcohol and use a new and sterile needle for each injection.

PRODUCT CODE #:	F70101C-N
BATCH #:	11211301
DATE OF PRODUCTION:	11/23/2013
LIPID COMPOSITION:	Phosphatidylcholine and cholesterol
ACTIVE:	Clodronate, (Dichloromethylene) bisphosphonic acid disodium salt (CAS:88416-50-6, 22560-50-5)
CLODRONATE Concentration:	7 mg/mL
CLODRONATE ENCAPSULATION:	> 90%
PARTICLE SIZE:	Meet specification
BULK SOLUTION:	PBS (10% sucrose, 20mM Na PO ₄), pH 7.0-7.4
RECOMMENDED DOSE:	For macrophage depletion up to one week: 200 µL day 1 (for 20-25g body wt). For more consistent results inject 2 days in advance For longer macrophage depletion: 200µL first dose, 100µL every 4 days
FORM/COLOR:	Milky and free flow liposomal dispersion, There may be some settlement of the liposomes which should disperse with proper mixing.
STORAGE AND HANDLING:	Store refrigerated (2-8 deg C). Avoid freezing. Warm to room temperature and mix well before use
STABILITY AND GUARANTEE:	Product is sterile filtered and filled in autoclaved glass vials. Formulation stability and sterility are guaranteed (exchange only) for 6 month for unused vials stored at 2 – 8 °C

Product For Research Only, Not For Human or Companion Animal Use