

عنوان مقاله:

Cyclophosphamide Drug Release from Polyethylene Glycol Membranes Containing Water and Ethanol Solvents:
Molecular Dynamic Simulations

محل انتشار:

یازدهمین سمینار بین المللی علوم و تکنولوژی پلیمر (سال: 1393)

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خلاصه مقاله:

Molecular dynamic (MD) simulations were applied to study the effect of solvents on the drug release from membranes consist of polyethylene glycol (PEG). Two different solvents including water and ethanol (100 molecules) were used as well as anticancer cyclophosphamide drug, five PEG chains each including ten repeating units in these simulations. The mean square displacement diagrams revealed that the drug mobility is higher in the system made by ethanol

کلمات کلیدی:

Molecular dynamic simulation, polyethylene glycol, cyclophosphamide, drug release

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