ABSTRACT

The present disclosure provides an actively encapsulated liposome nanocarrier delivery system. The liposome nanocarrier delivery system comprises a liposome carrier and substances actively encapsulated thereby for use in preventing and/or treating atherosclerosis or diseases related to atherosclerosis. The preparation of the nanocarrier delivery system comprises the step of adding a saline solution that causes an acidity gradient of a liposome solution inside and outside of a body so as to hydrate the substances actively encapsulated by the liposome carrier for use in preventing and/or treating atherosclerosis or diseases related to atherosclerosis. Further provided are a preparation method for the liposome nanocarrier delivery system and an application thereof.