

ABSTRACT

PREPARING METHOD FOR POSITIVELY-ELECTRIFIED CHARGED NIOSOME, AND CHARGED NIOSOME

[Problems] To provide a preparing method for a charged niosome which is formed of a lipid containing a diacylglycerol PEG adduct and which is capable of being excellently impregnated into the skin and stored in the skin.

[Means for solving the Problems] The preparing method for the charged niosome includes the steps of: preparing a suspension of a niosome by mixing a lipid containing a diacylglycerol PEG adduct with an aqueous solution at a temperature where the lipid is in a liquid state so that the lipid forms the niosome spontaneously; preparing a cationic-surfactant aqueous solution by mixing a cationic surfactant with an acidic aqueous solution, the cationic surfactant being chosen from a group which consists of an aliphatic amine, an aliphatic or aliphatic-amide quaternary ammonium salt, an aliphatic amideamine and an acylamino acid derivative, the hydrophobic part of the cationic surfactant containing a saturated or unsaturated normal hydrocarbon group having a carbon number of 11 to 21; and preparing a suspension of a charged niosome by mixing the suspension of the niosome with the cationic-surfactant aqueous solution and allowing the cationic surfactant to modify a surface of the niosome with a positive charge of the hydrophilic part of the cationic surfactant.

[Selected Drawing] Fig. 2