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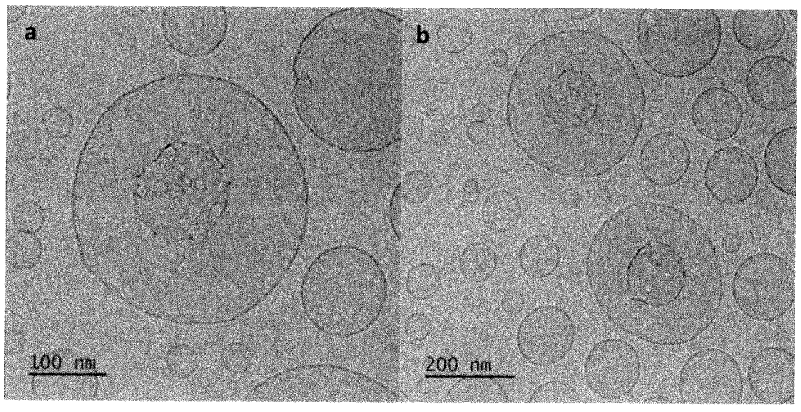
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(54) **Title:** LYOTROPIC LIQUID CRYSTALLINE NANOSYSTEMS WITH ENCAPSULATED BIOACTIVE MACROMOLECULES

Figure 2.



(57) **Abstract:** The invention relates to compositions of physicochemically stable colloid systems in the form of lyotropic liquid crystals, comprising glycerol monooleate, a salt of C6-C12 fatty acid or its derivative with an aromatic substituent, an amphiphilic block copolymer with the chemical formula $H(OCH_2CH_2)_a(OCH(CH_3)CH_2)_b(OCH_2CH_2)_aOH$, wherein $2 \leq a \leq 150$ and $15 \leq b \leq 70$, and a bioactive macromolecule having peptide bonds.

WO 2023/026067 A1