

Synthesis Of Novel Metallosurfactants For Drug Delivery

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Abstract : Metalloporphyrin and its derivatives play an important role in different scientific areas due to its tetradentate vacant site in the center that is suitable for metal coordination. Metalosomes (MTS) are supramolecular aggregates (similar to liposomes) generated by the self-assembly of compounds similar to phospholipids (with a polar and a hydrophobic part), but incorporating, as part of their membrane, molecules that contain bound metals. The aim of our work is to synthesise metalosomes containing cationic amphiphilic porphyrin and their complexes with Fe and Cu to study their therapeutical applications. All synthesized compounds were confirmed with Dynamic Light Scattering; elemental analysis, Ultraviolet-visible spectroscopy

Keywords : metalloporphyrin, amphiphilic porphyrin, metalosomes, supramolecular

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