

Lyotropic Liquid Crystals (LLCs)

LLCs are two-component systems where an *amphiphile* is dissolved in a solvent.

Thus, lyotropic mesophases are concentration and solvent dependent.

The amphiphilic compounds are characterised by two distinct moieties, a hydrophilic polar “head” and a hydrophobic “tail”.

Examples of these kinds of molecules are soaps (Figure-1a) and various phospholipids like those present in cell membranes (Figure-1b).

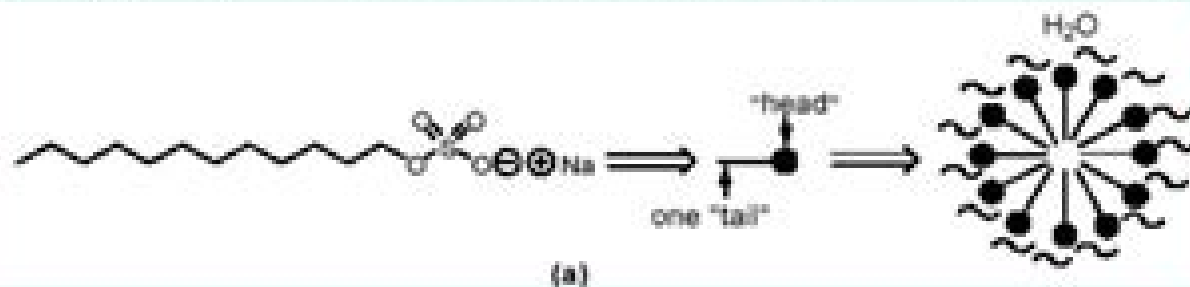


Figure-1a: Sodium dodecylsulfate (soap) forming micelles

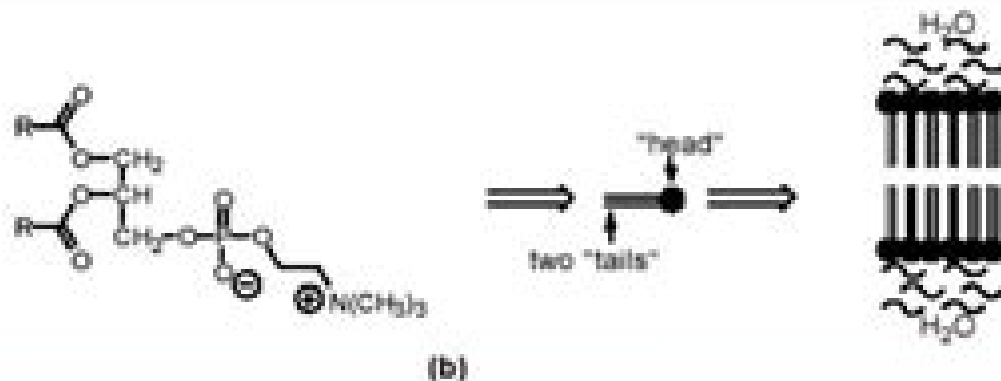


Figure-1b: Phospholipid (lecithine), present in cell membranes, in a bilayer lyotropic liquid crystal arrangement

Lyotropic Liquid Crystals And The Structure Of Biomembranes

Didier Musso



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