

Transmission electron micrographs of **1** (a) and **3** (b) in water stained with2wt% of aqueous solution of ammonium molybdate. pH10, [1] = [3] = 1mM; original magnification; (a) × 20,000, (b) × 50,000.

It seems that intermolecular hydrogenbonding moieties, side chain methylene number and maybe spacer moieties (glutaramic acid- and succinamic acidheadgroups) do not directly affect the dye incorporation and indirectly they play crucial role in adjusting packing mode of peptide amphiphiles for formation of specific supramolecular environments (i.e., size and hydrophobicity of cavities) that can incorporate stilbazolium dyes specifically.

