Synthesis of Some Streoregular Polydiacetylenes and the Slow Release of Drug using Some Linear Polymers

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Some polydiacetylenes have been synthesized using UV light in topochemical polymerization technique. Some diacetylene compounds were reacted with benzokaine in an attempt to be used as biosensors in topochemical polymerization process (In vivo). The linear (Amorphous) polymers were allowed to react with some commercial antibiotics and were studied as slow drug release polymers. Orally treatment of the drug containing polymers to groups of infected rabbits revailed that these polymers are effective against certain types of microorganisms.