

Control of unimer/micelle transition of amphiphilic diblock copolymer by external stimuli and its application to drug delivery systems

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By utilizing the special characteristics of "non-surface active" polymers, a novel drug delivery system of polymer micelle has been established. The critical micelle concentration (cmc) of "non-surface active" polymers increases with increasing added salt concentration. Hence, this polymer micelle can be disintegrated by salt addition, which was applied to drug release system with salt addition as a trigger. The system with UV irradiation as a trigger was also investigated.