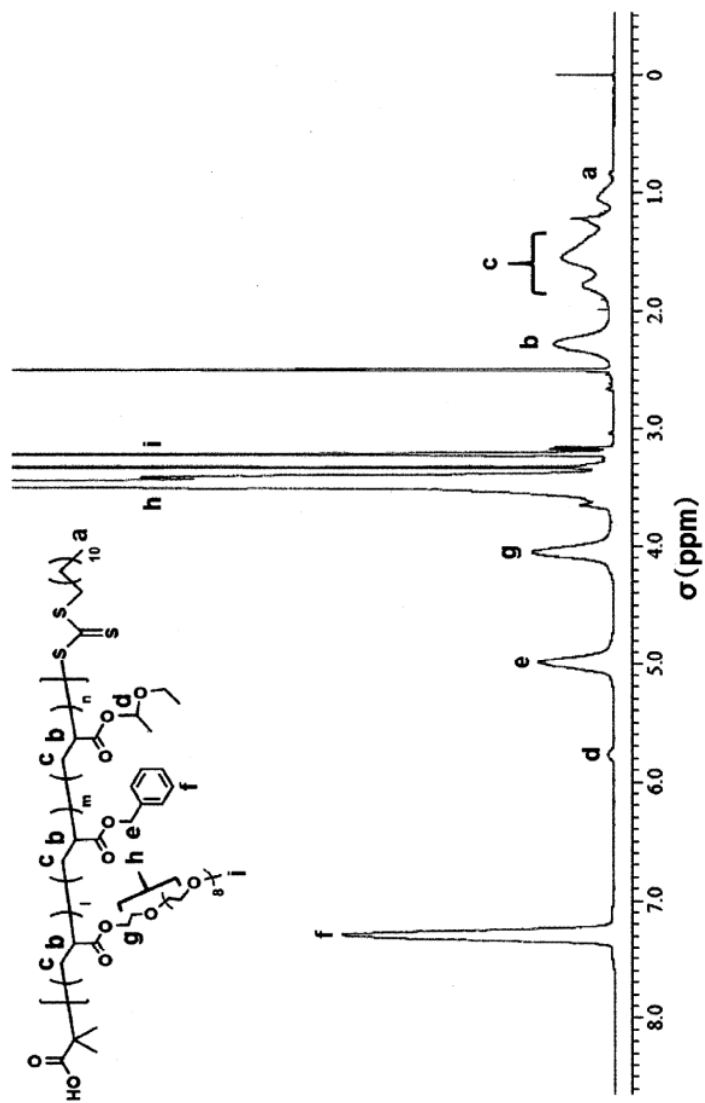


FIG. 1



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FIG. 2

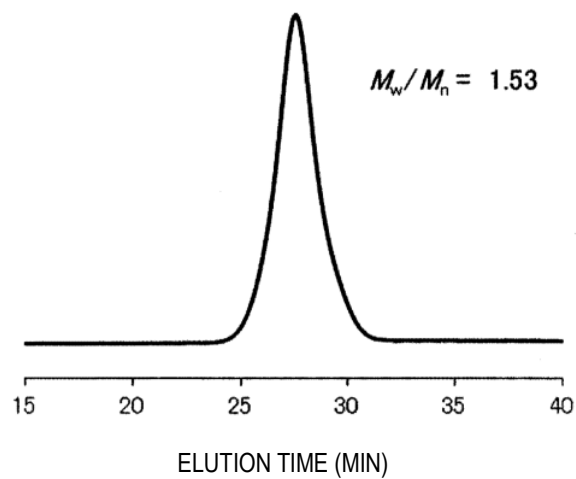


FIG. 3

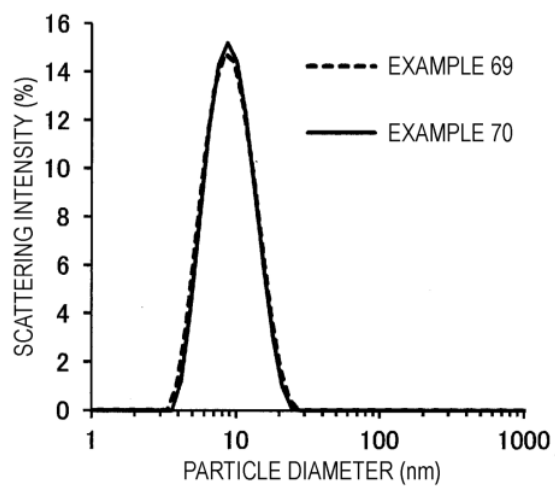
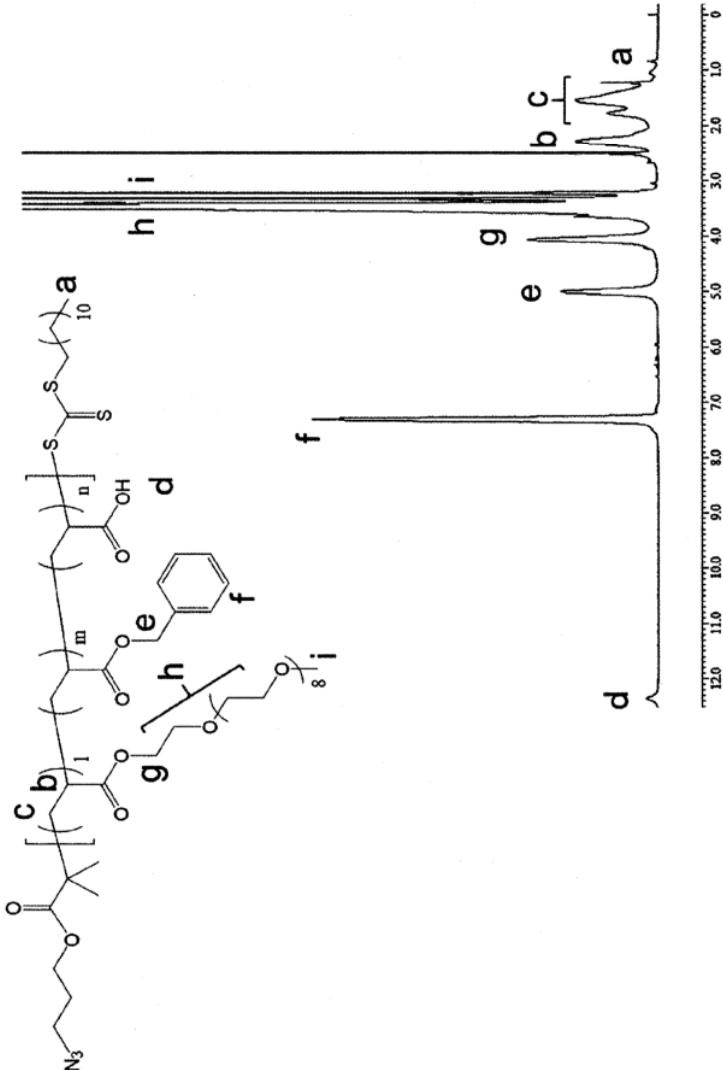


FIG. 4



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FIG. 5

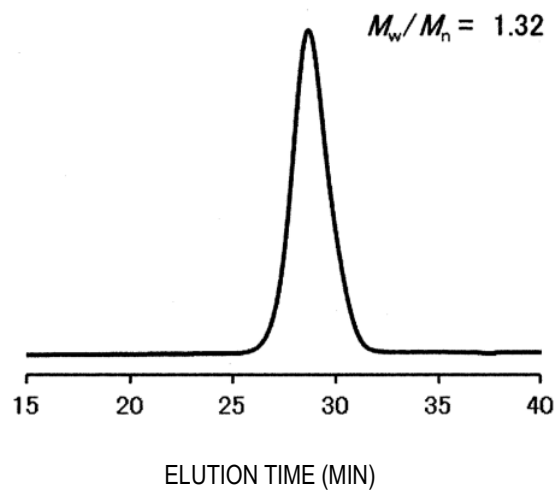


FIG. 6

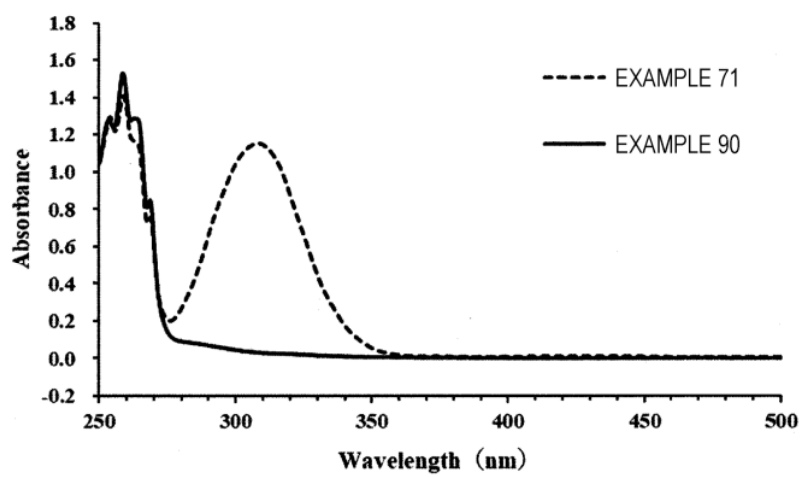
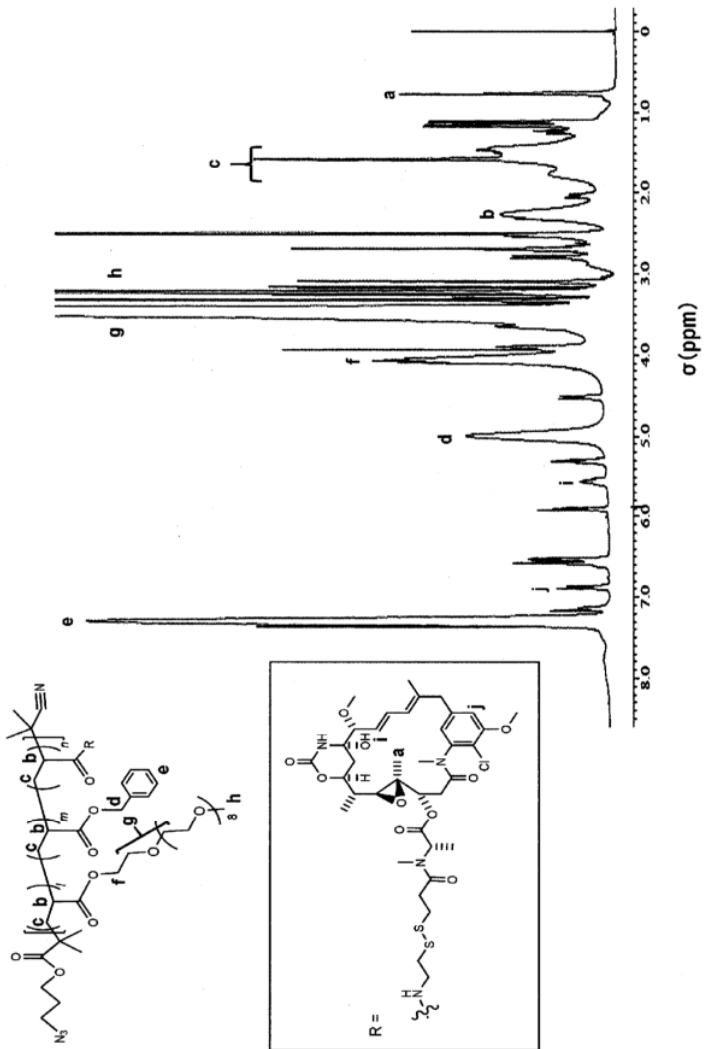


FIG. 7



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FIG. 8

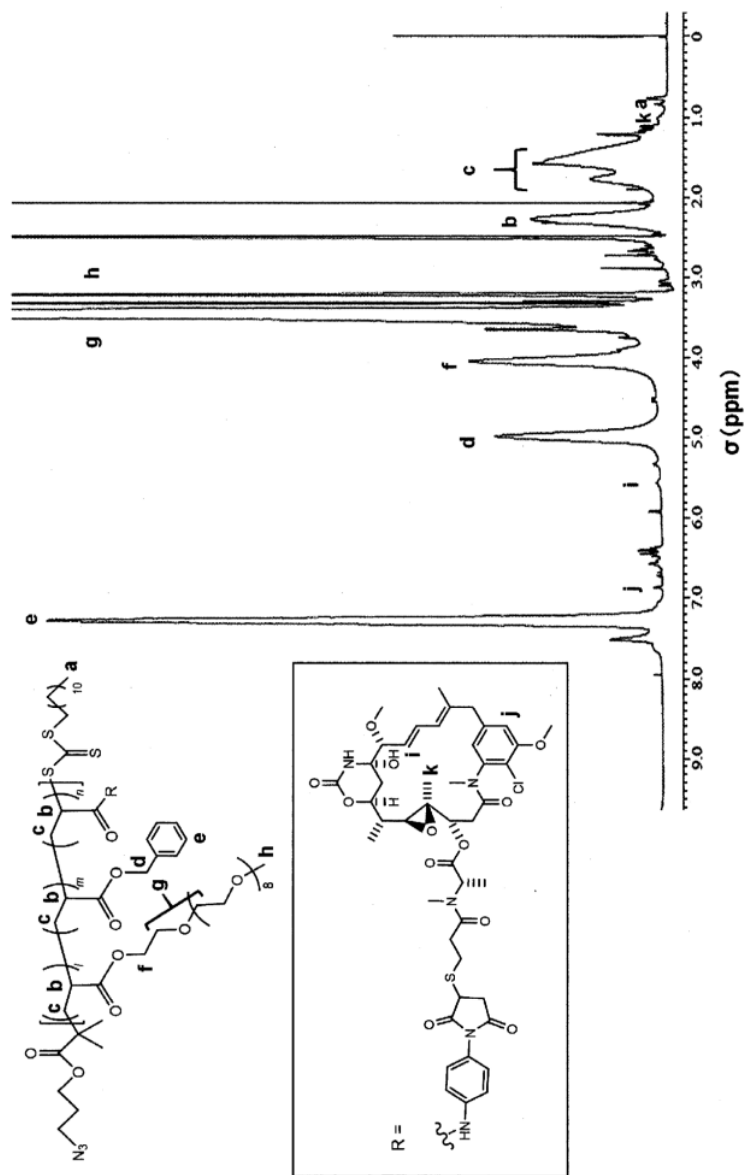


FIG. 9

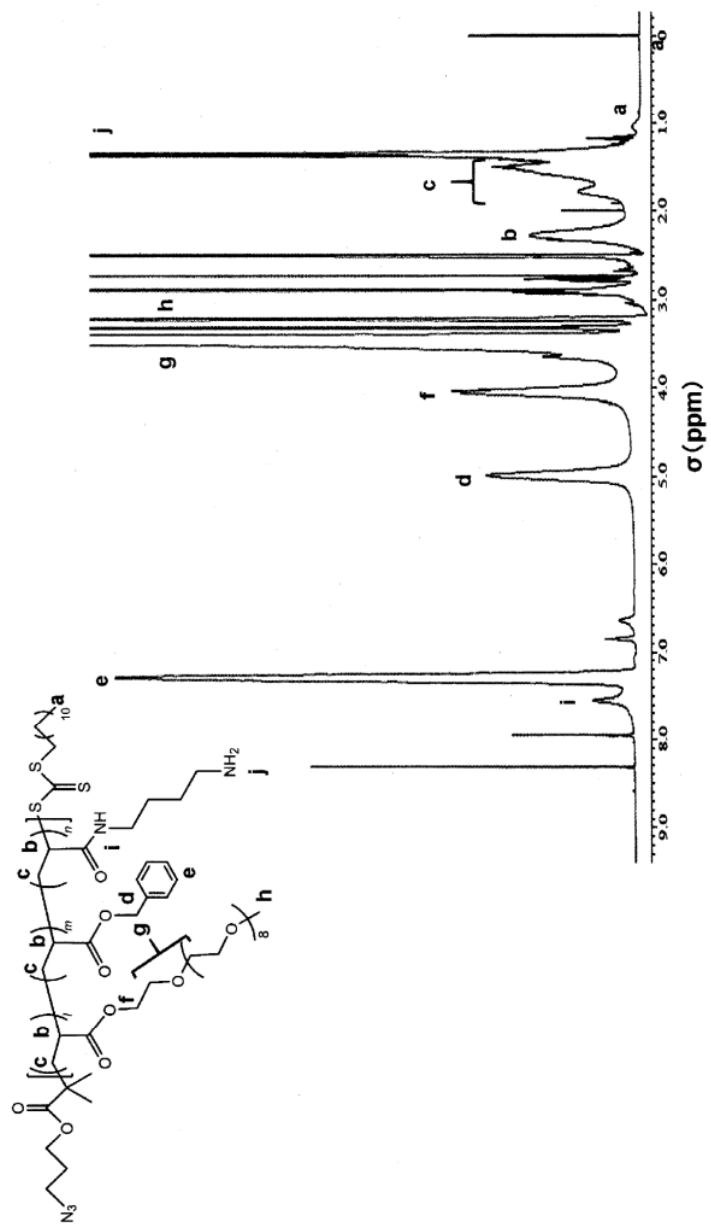
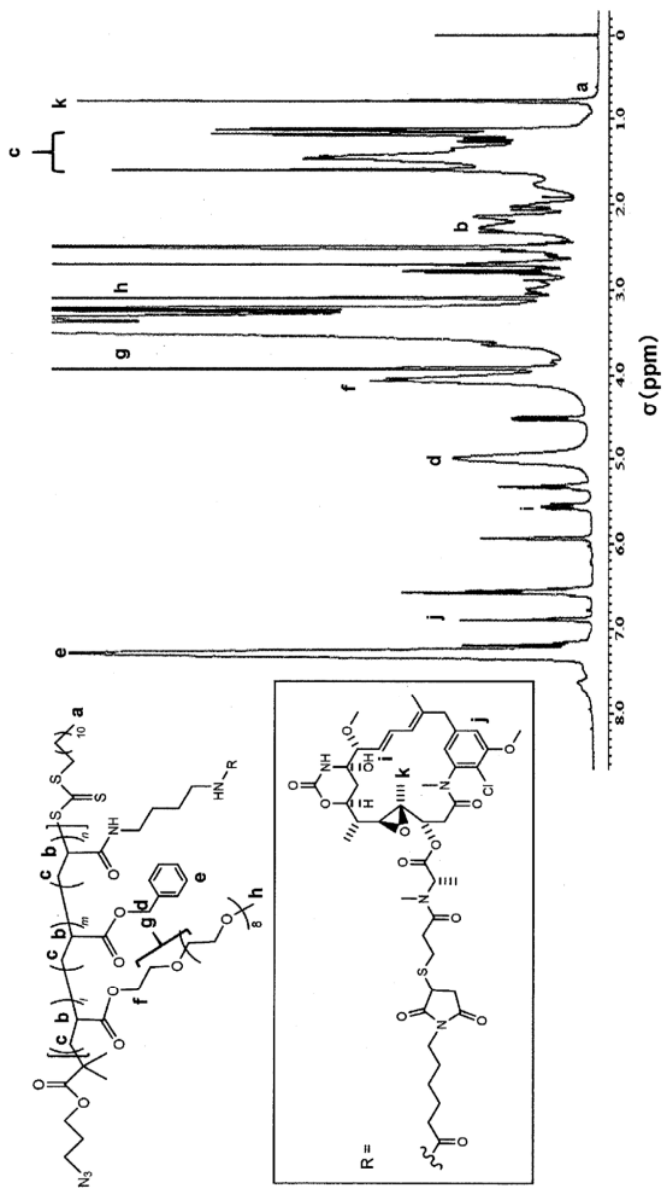
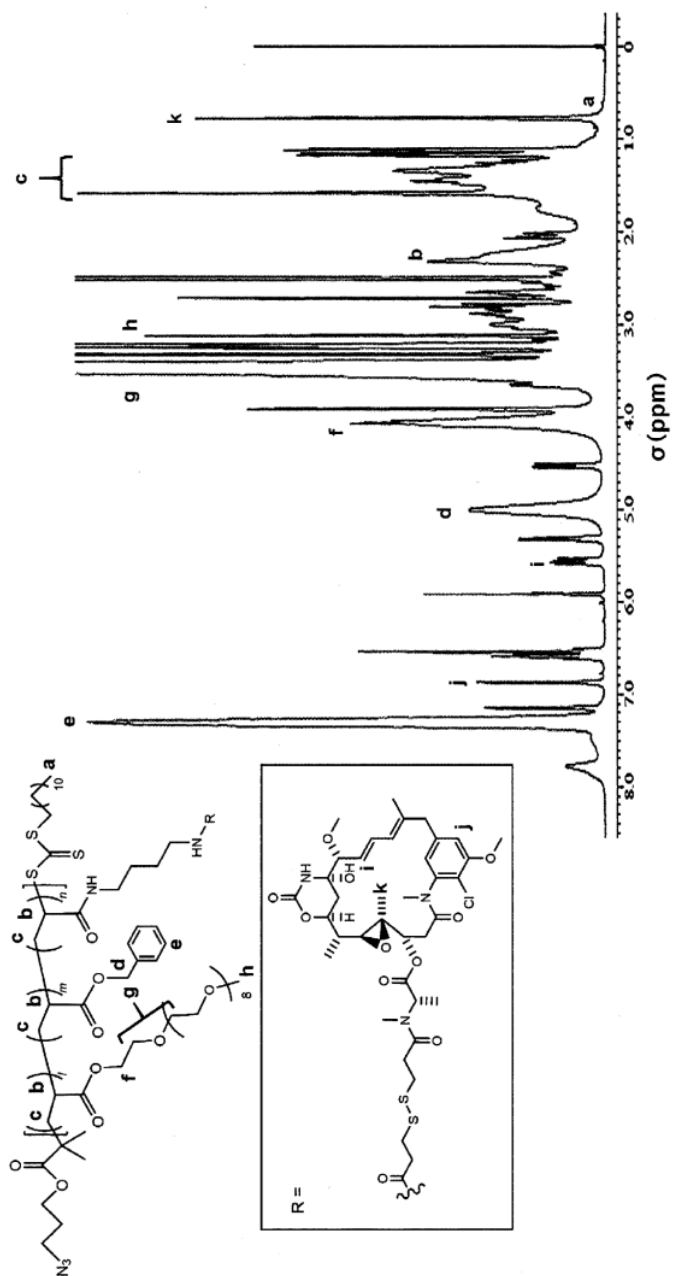


FIG. 10



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FIG. 11



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FIG. 12

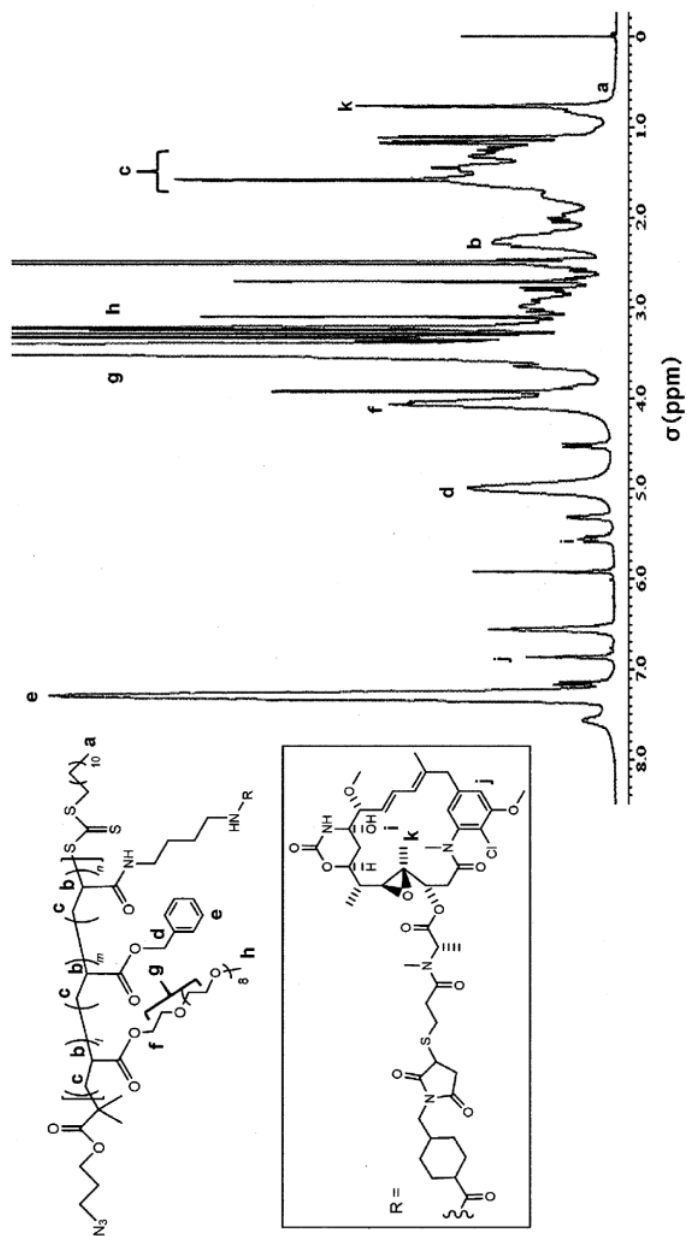


Figure 1 displays the ^1H NMR spectrum of the copolymer, with chemical shifts in ppm (σ) on the x-axis ranging from 0 to 9.0. The spectrum shows several peaks labeled a through k, corresponding to the chemical structure of the copolymer. The chemical structure is a copolymer consisting of several repeating units, including a sulfonamide group, a methoxy group, and a chlorine atom. The R group is defined as a complex molecule containing a chlorine atom, a methoxy group, and a sulfonamide group.

FIG. 14

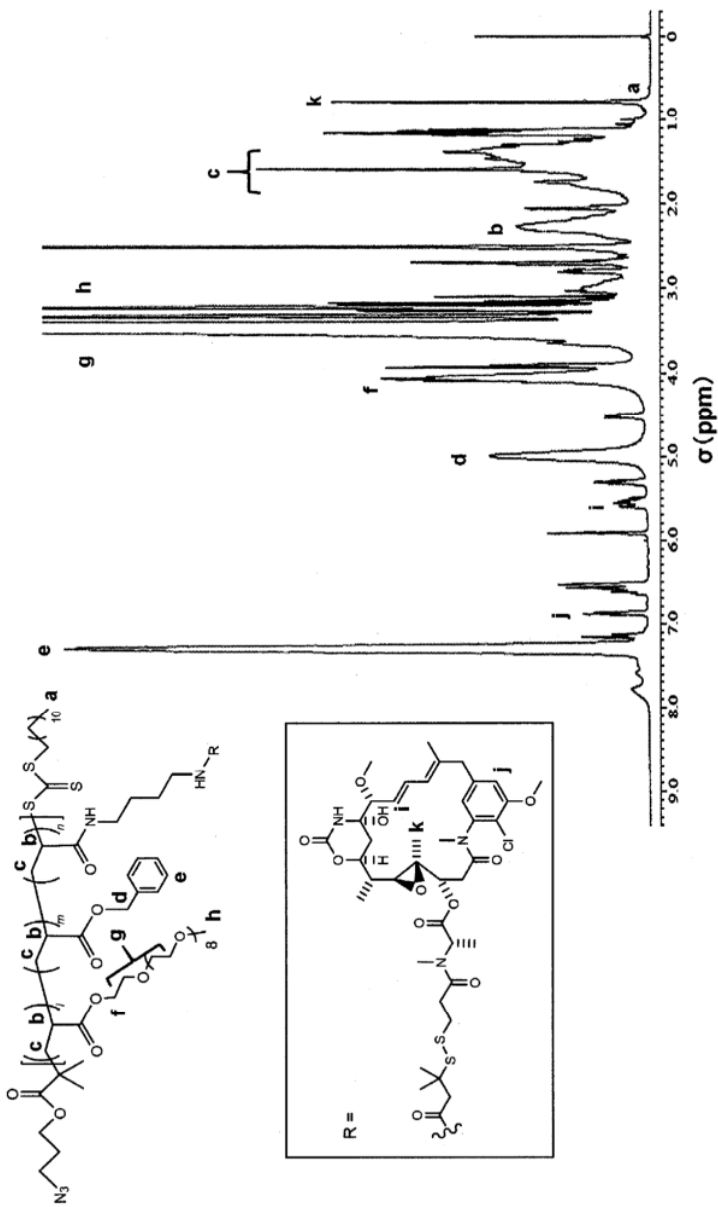


FIG. 15

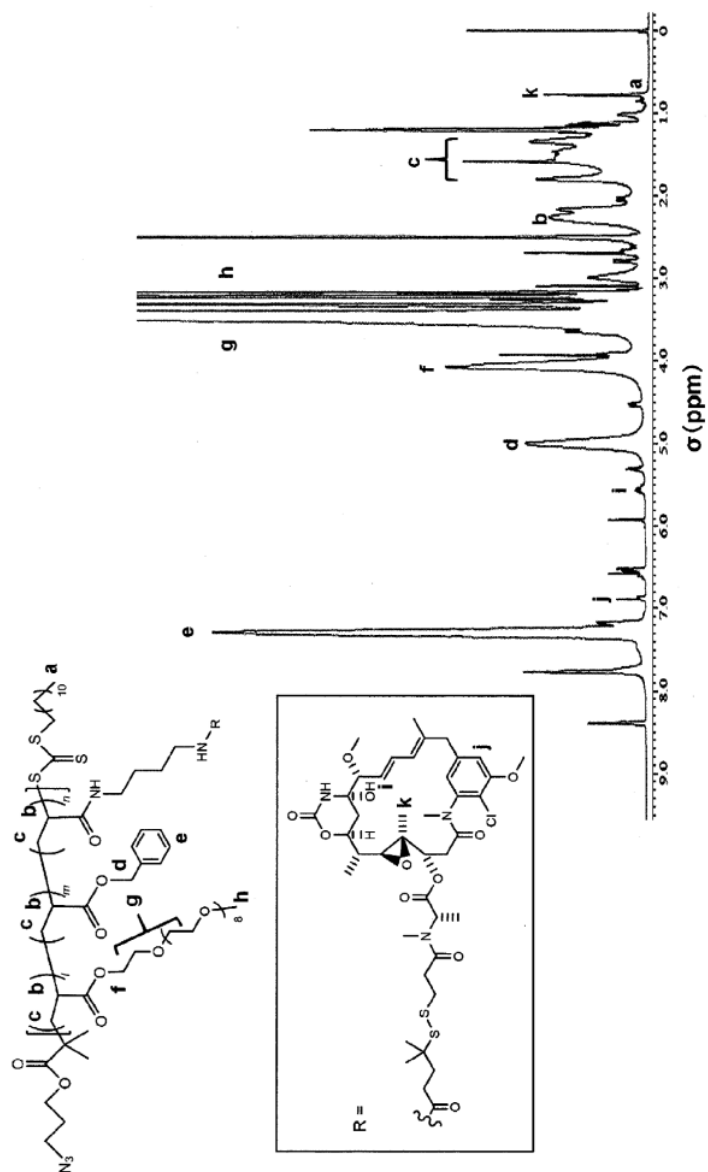


FIG. 16

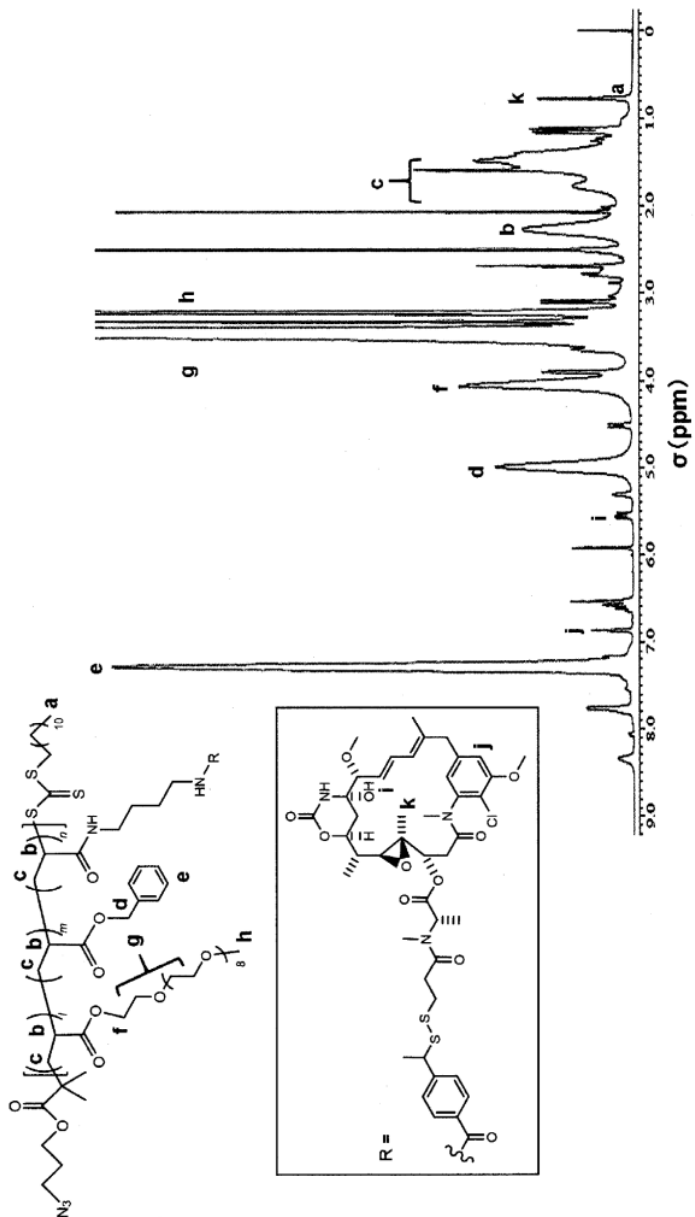


FIG. 17

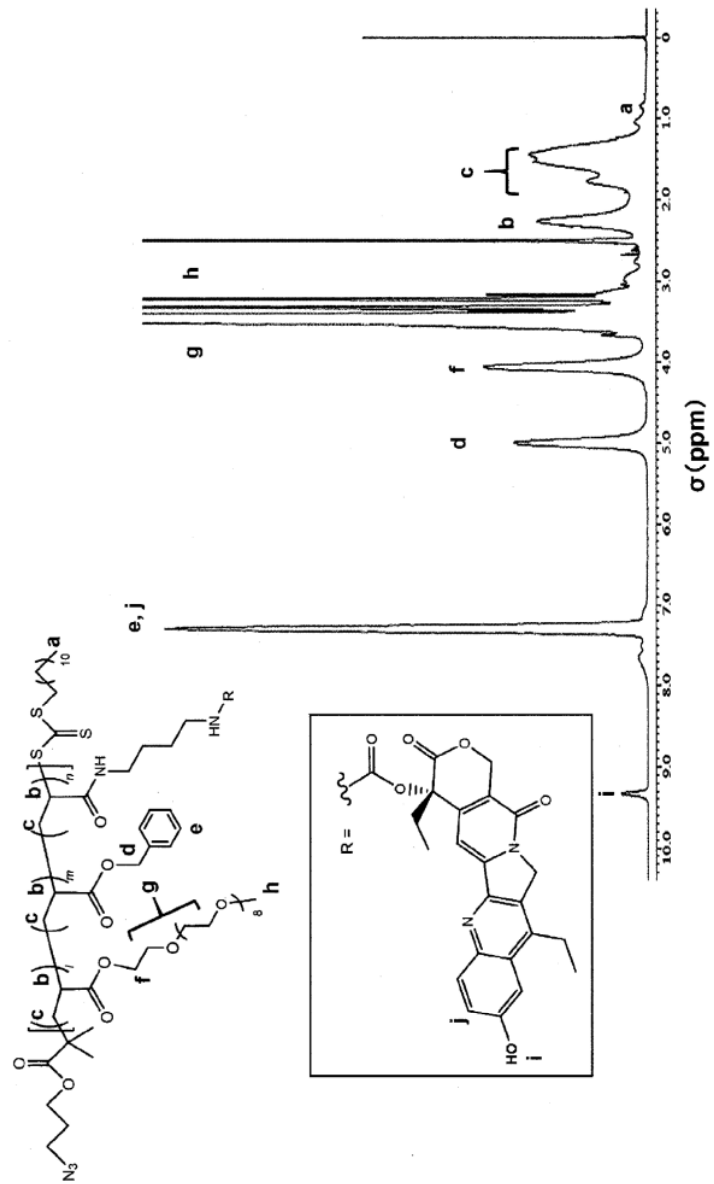


FIG. 18

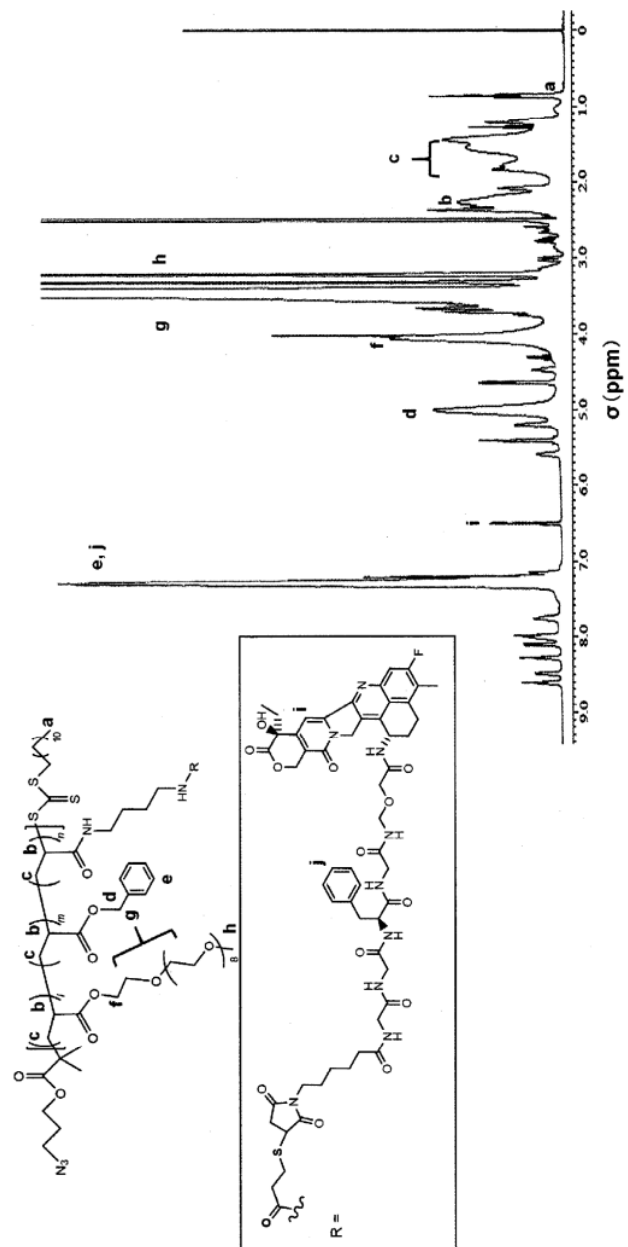


FIG. 19

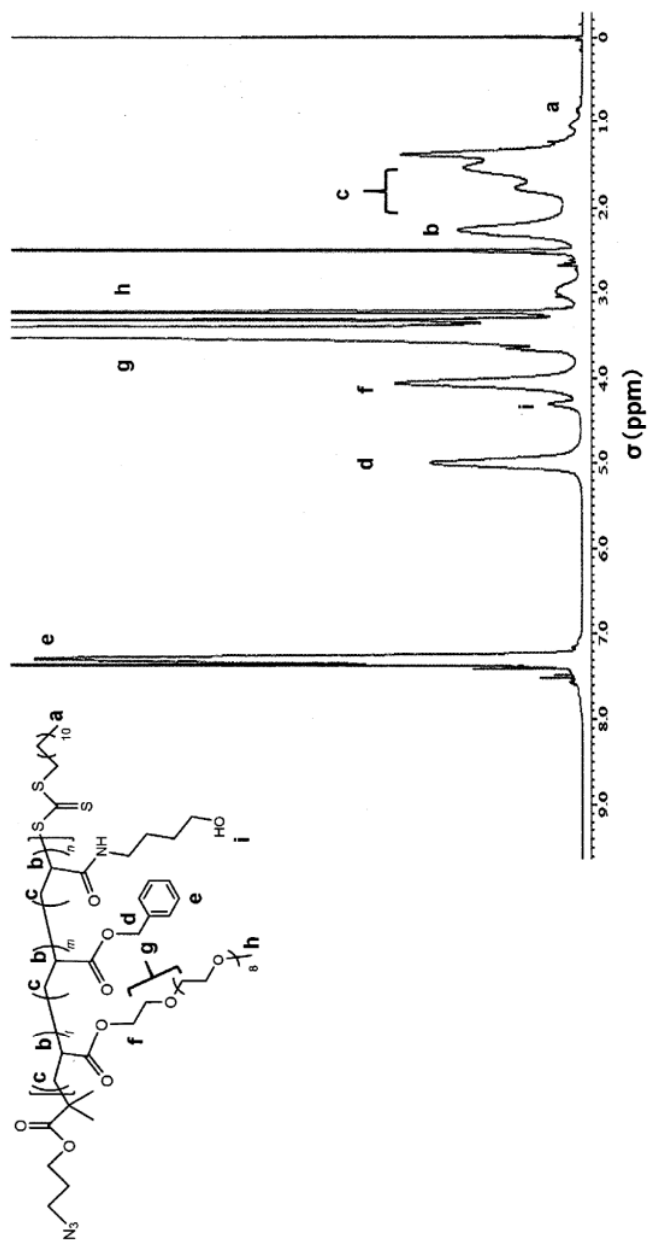


FIG. 20

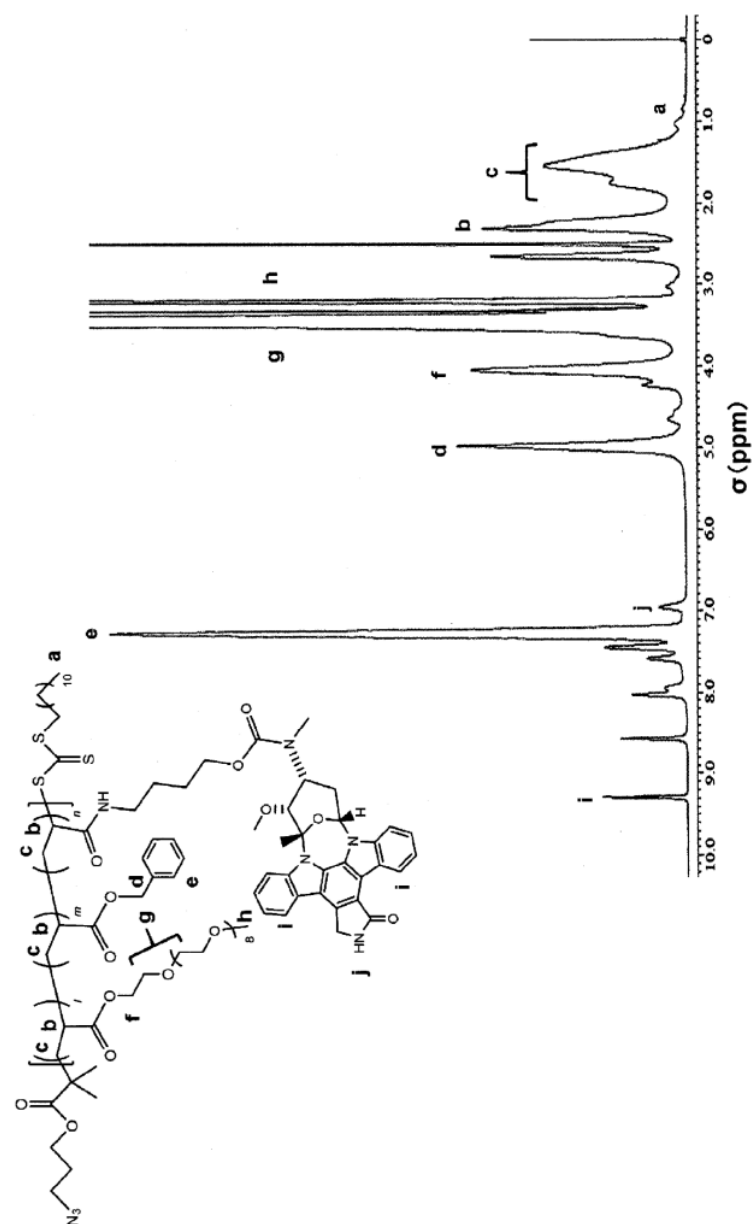
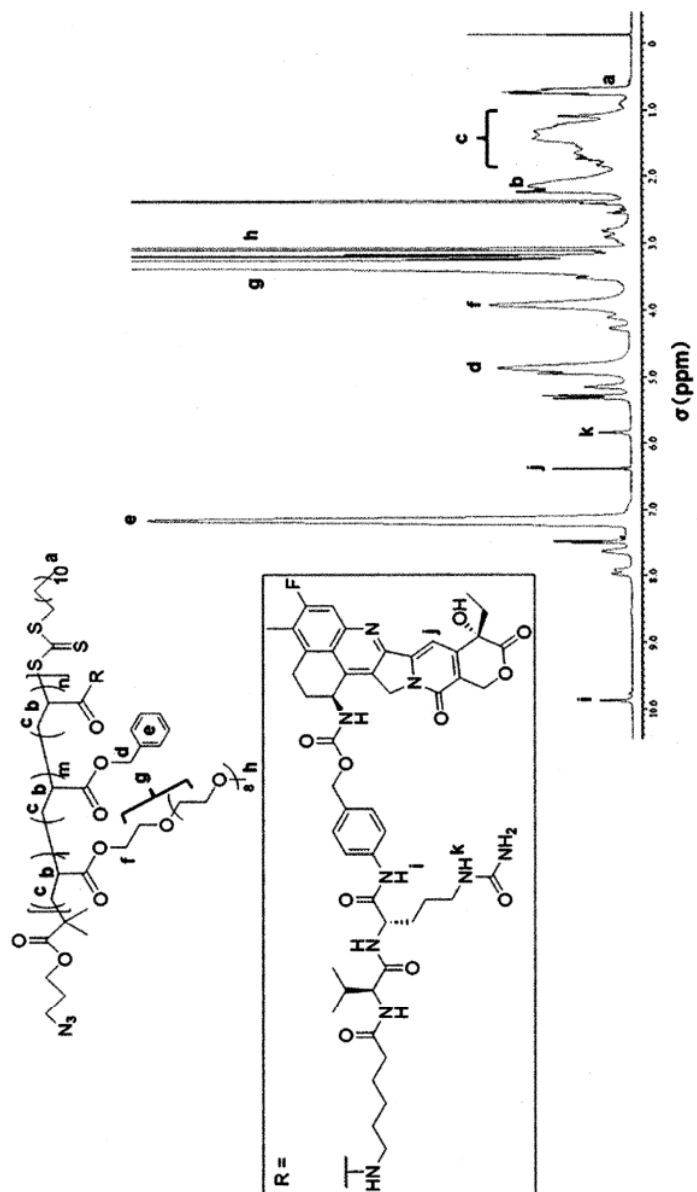
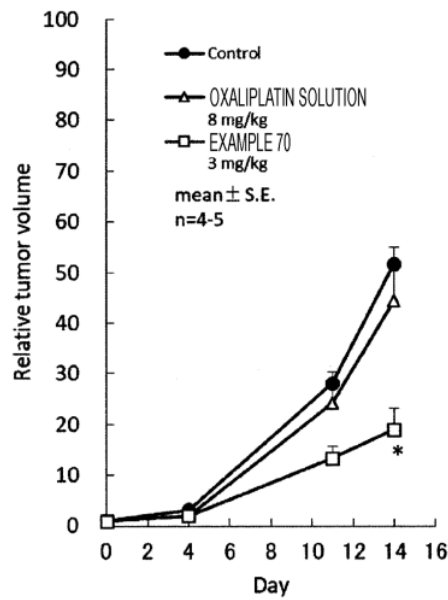


FIG. 21



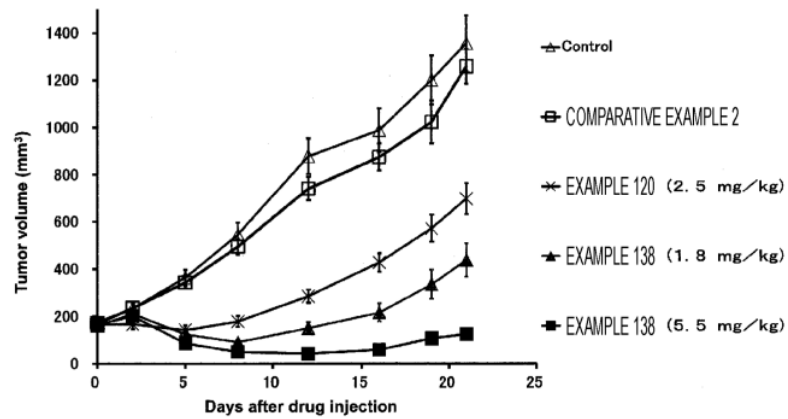
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FIG. 22



*; $P < 0.05$ (student's t-test) vs. Control

FIG. 23



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FIG. 24

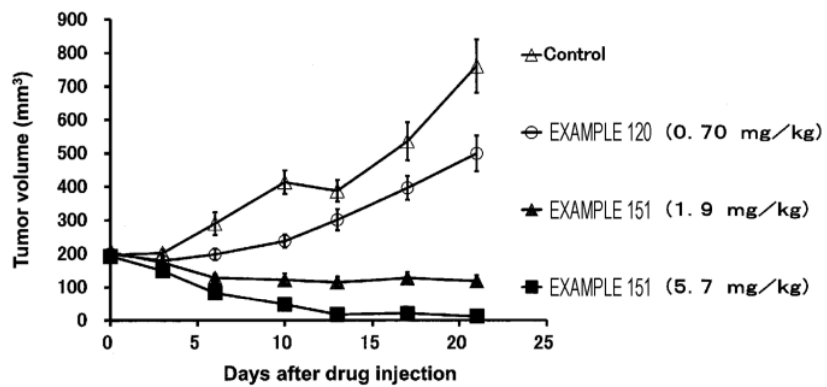
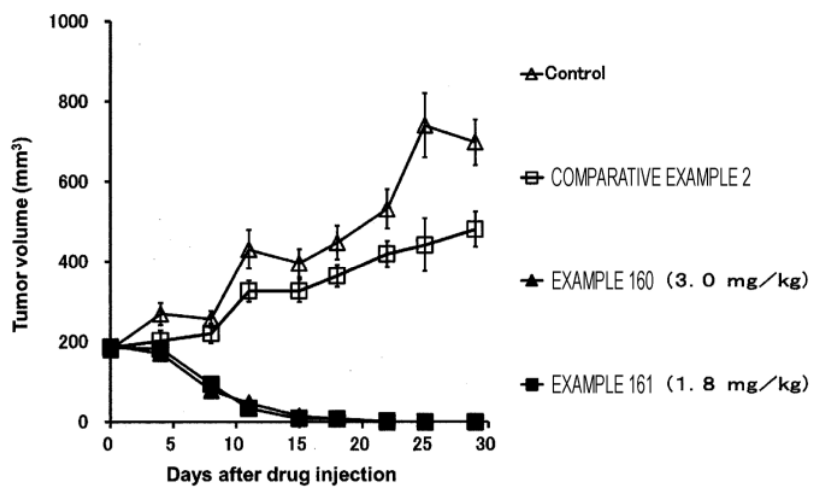


FIG. 25



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FIG. 26

