

## Supporting Information

### **The Role of Cationic Group Structure in Membrane Binding and Disruption by Amphiphilic Copolymers**

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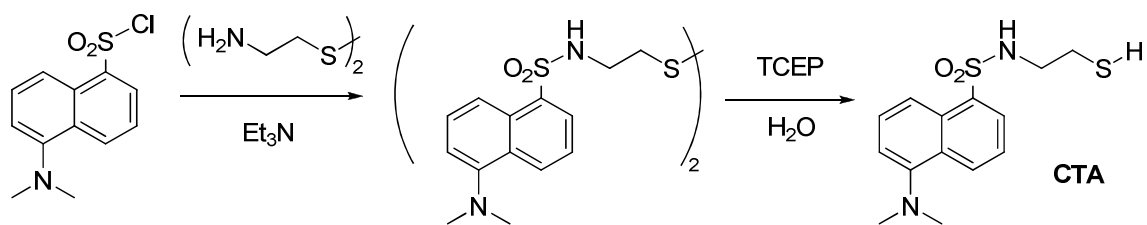
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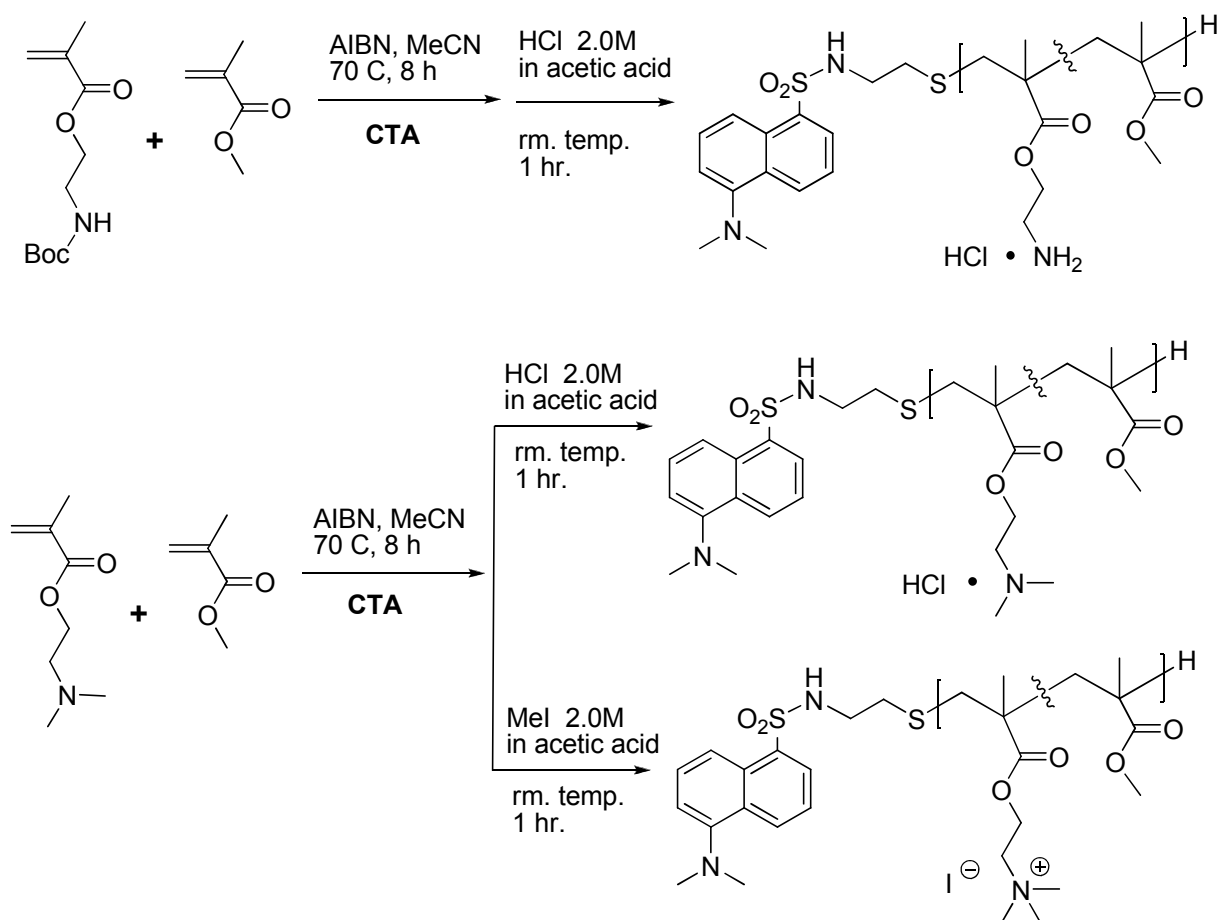
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#### **Contents**

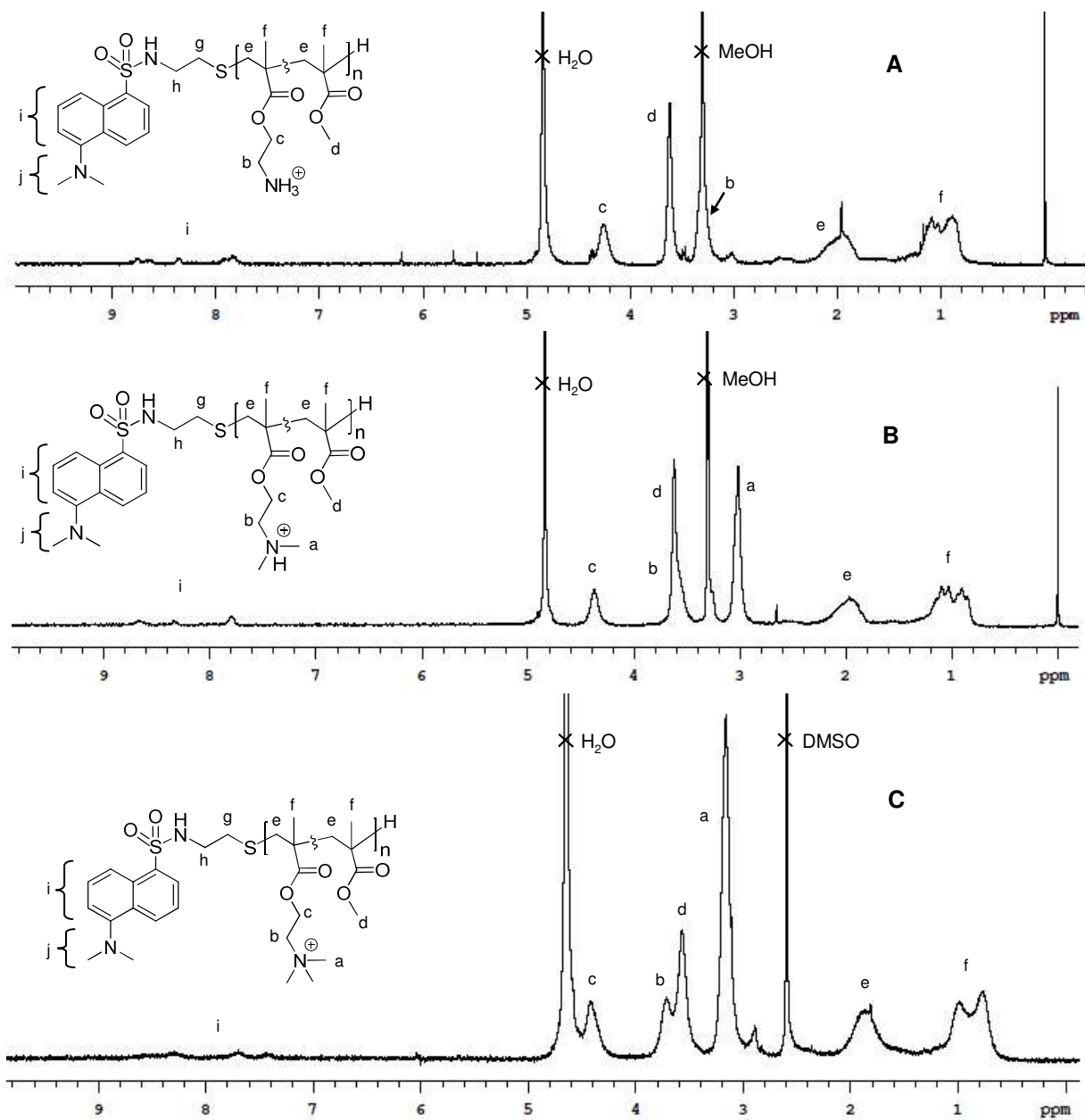
|           |   |   |
|-----------|---|---|
| <b>S1</b> | Synthesis of dansyl-conjugated chain transfer agent   | 2 |
| <b>S2</b> | Functionalized copolymer synthesis  | 2 |
| <b>S3</b> | <sup>1</sup> H NMR spectra of the copolymers and the dansyl chain transfer agent  | 3 |
| <b>S4</b> | Emission spectra of the dansyl-labeled polymers in aqueous buffer   | 4 |
| <b>S5</b> | Emission intensity versus polymer concentration in methanol (calibration curves for determining the water-octanol partition coefficients) | 4 |
| <b>S6</b> | Hemolysis raw data and curve-fitting to the Hill equation   | 4 |
| <b>S7</b> | Binding of the copolymers to POPC vesicles in buffers of pH 6, 6.5, 7, 7.5, and 8   | 5 |



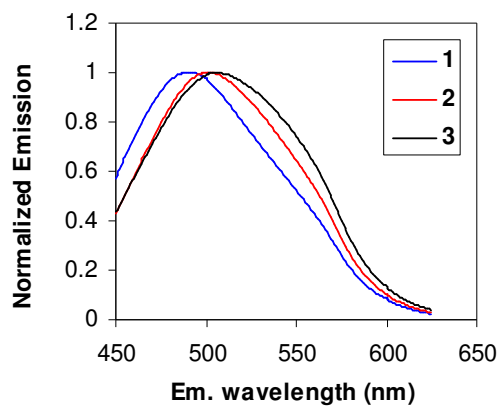
**Figure S1.** Synthesis of the dansyl-labeled chain transfer agent (CTA).



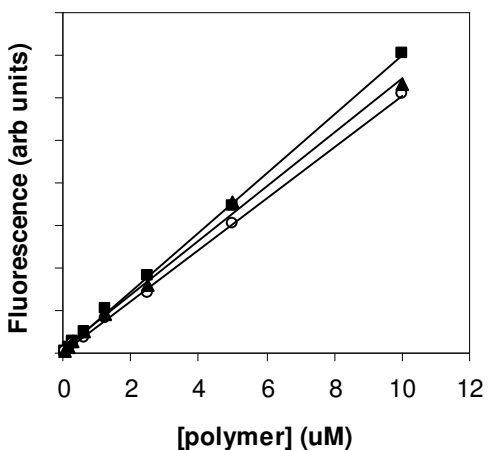
**Figure S2.** Synthesis of the amphiphilic random copolymers with dansyl end groups and different ammonium groups in the side chains



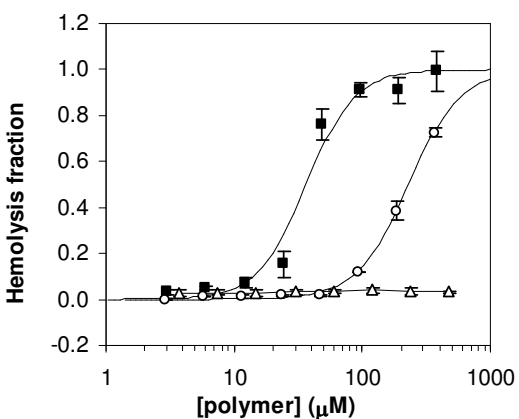
**Figure S3.**  $^1\text{H}$  NMR spectra of (A) **1** in  $\text{MeOH-d}_4$ , (B) **2** in  $\text{MeOH-d}_4$ , and (C) **3** in  $\text{D}_2\text{O}$ .



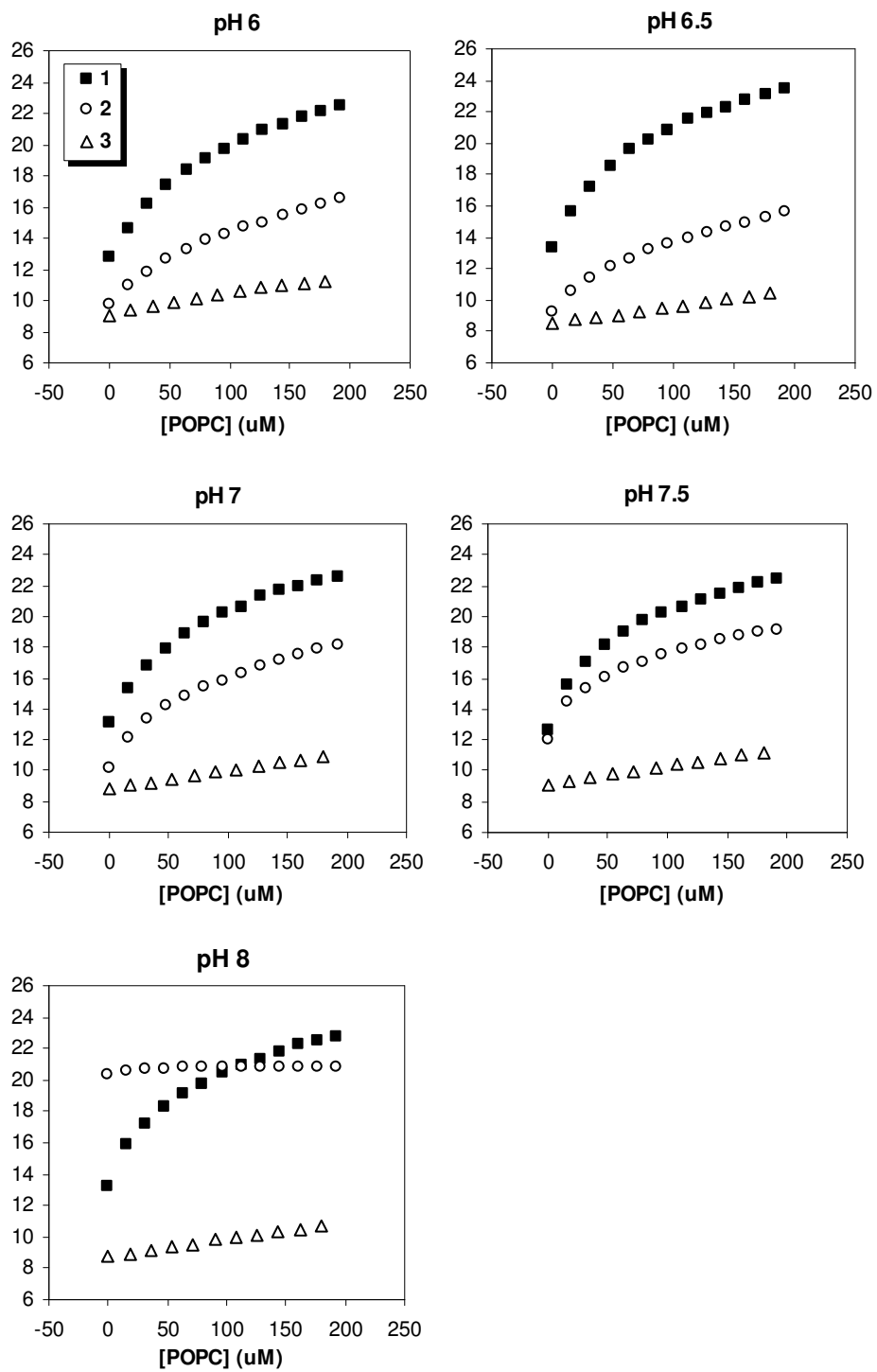
**Figure S4.** Normalized emission of the dansyl-labeled polymers in MES-buffered saline, pH 6.



**Figure S5.** Fluorescence intensity versus concentration of the polymers in methanol, used as the calibration curves for the calculation of partition coefficients.



**Figure S6.** Hemolysis curves for each the copolymers with primary (filled square), tertiary (empty circle), and quaternary (empty triangle) ammonium groups.



**Figure S7.** Binding curves for each of the polymers in pH ranging from 6 to 8.