Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Supplementary Information

Polydiacetylene-based Colorimetric Chemosensor for Malondialdehyde Detection; Food Spoilage Indicator

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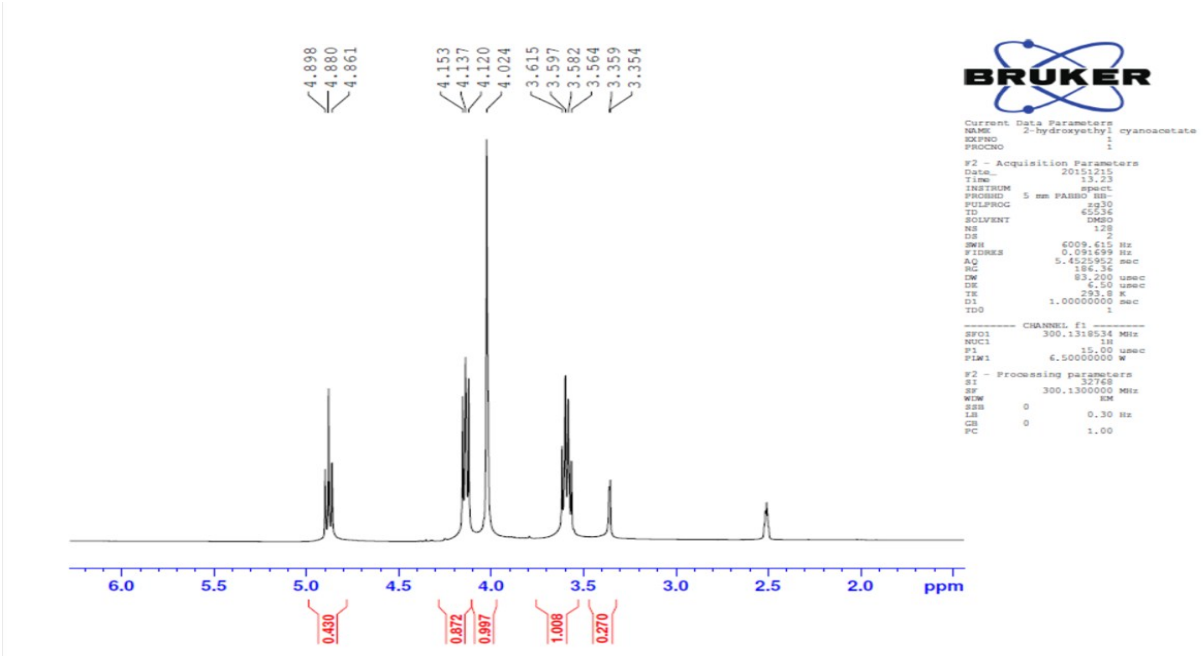

Figure S1. ^{1}H-NMR spectrum of synthesized 2-hydroxyethyl cyanoacetate (HCA, **1**).

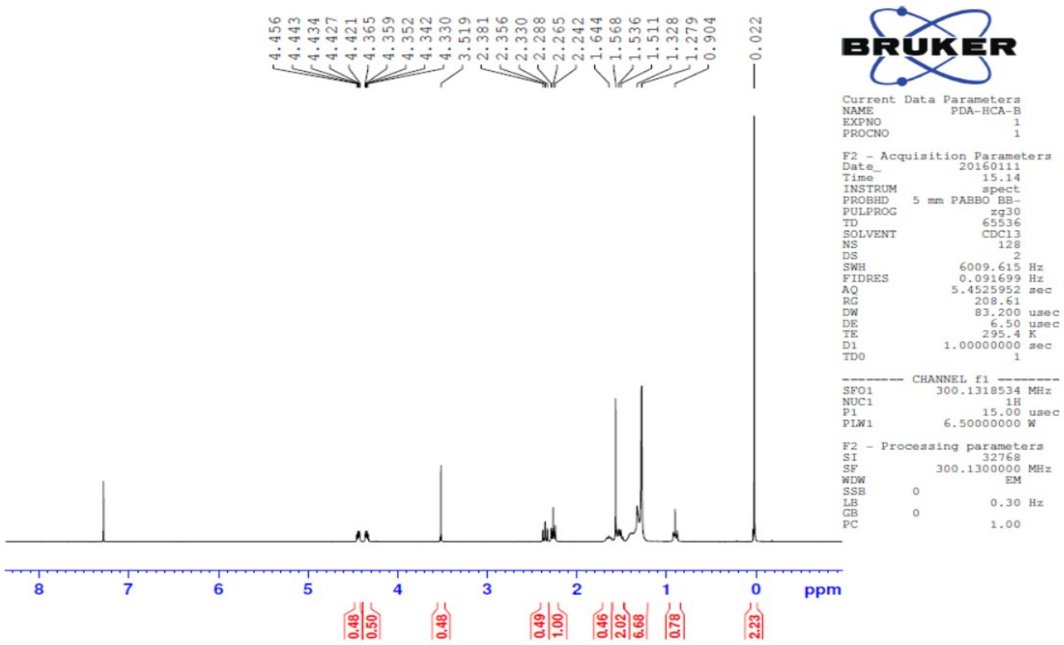

Figure S2. ^{1}H-NMR spectrum of synthesized 2-(2-cyanoacetoxy)ethylpentacosa-10,12-diynoate (**PCDA-HCA**).

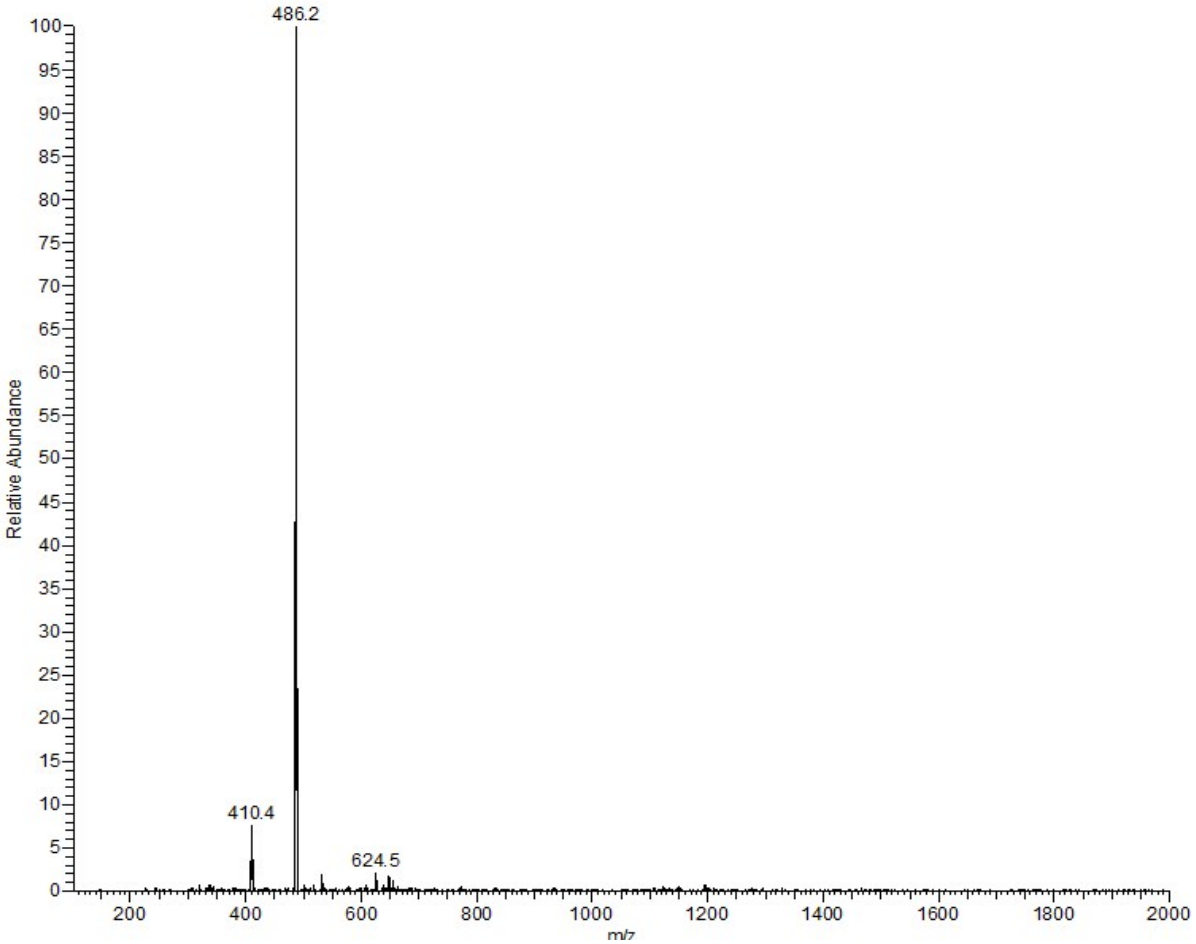

Figure S3. LC-mass spectrum of PCDA-HCA

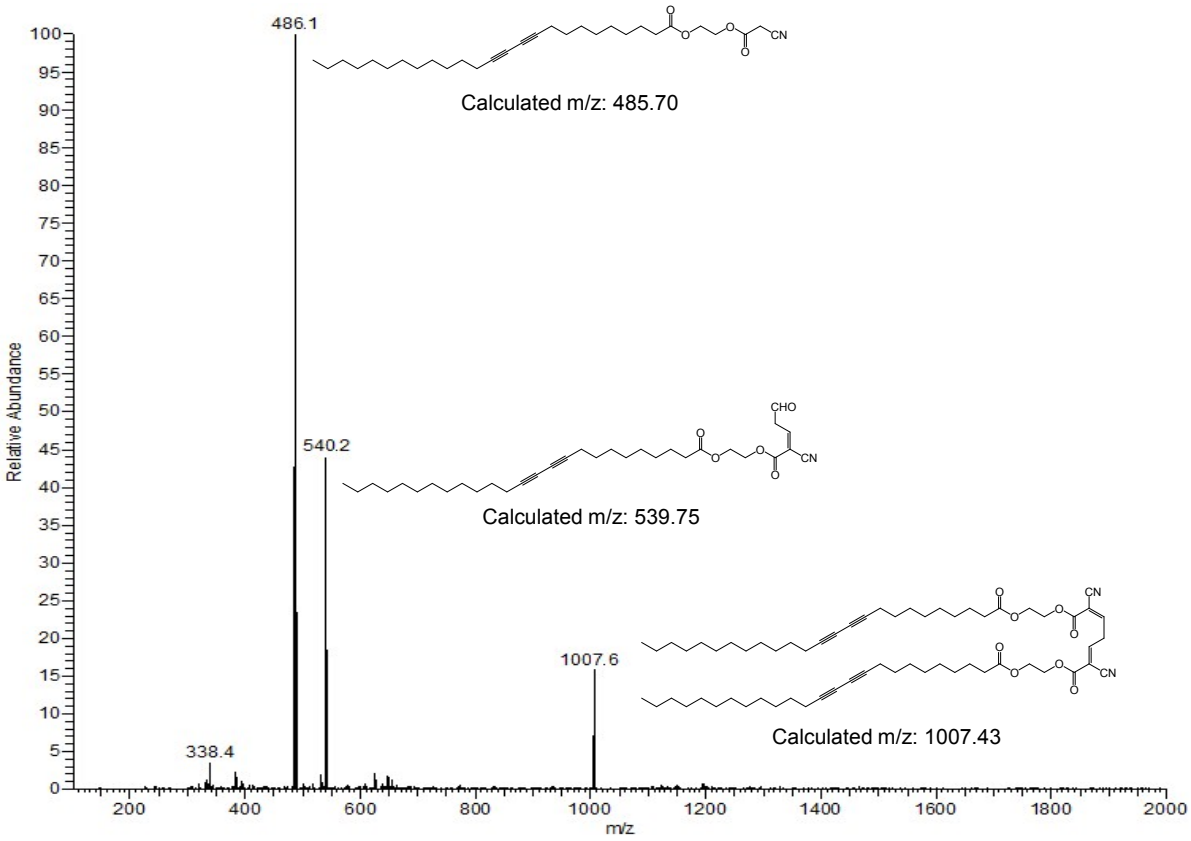

Figure S4. LC-mass spectrum of mixture obtained from the reactivity test of PCDA-HCA with MDA-TA/diethylamine

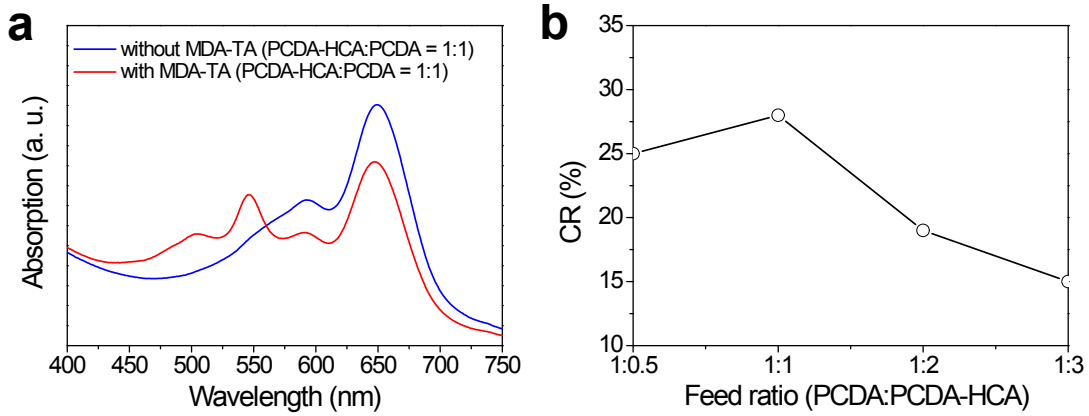

Figure S5. (a) UV-vis absorption change of liposome in MDA solution and (b) corresponding CR values depending on monomer feed ratio for liposome preparation.

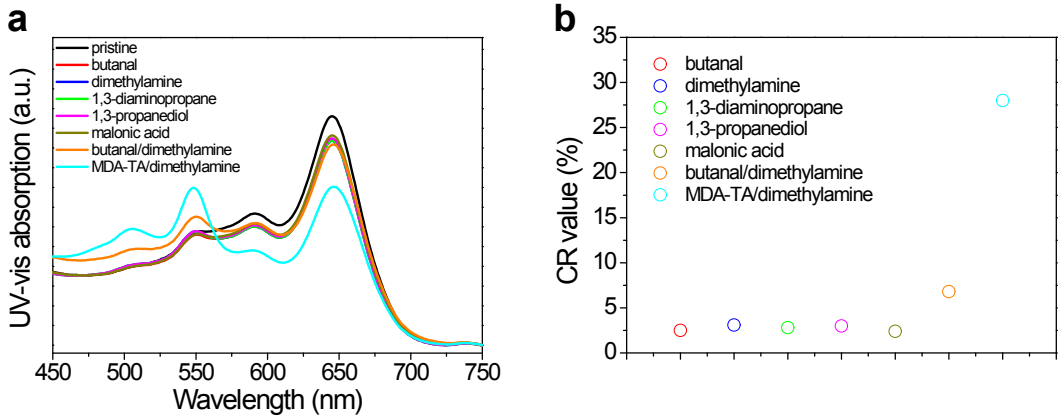

Figure S6. Selectivity of devised chemosensor. (a) UV-vis absorption spectra and (b) corresponding CR values.

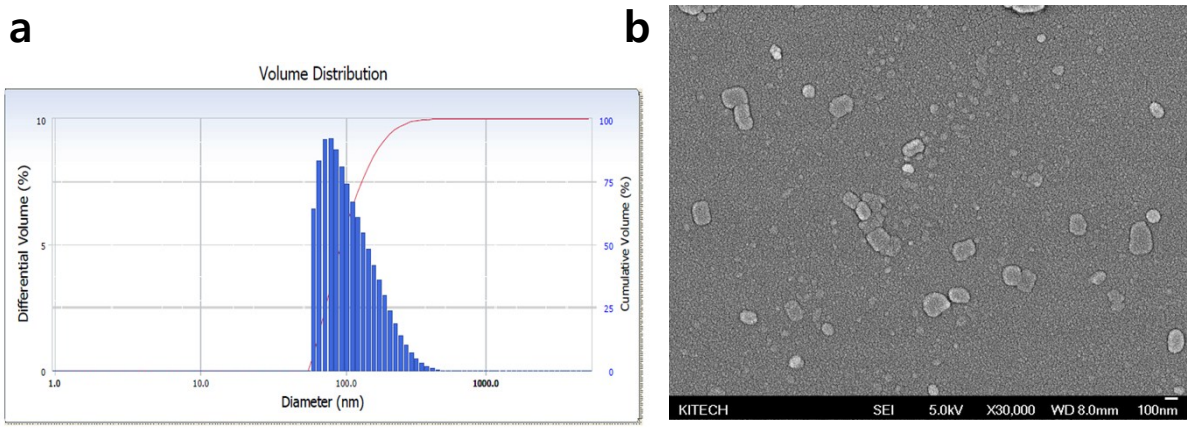

Figure S7. (a) SEM image of prepared liposomes and (b) their size distribution.