Site-Specific DNA Structural and Dynamic Features Revealed by Nucleotide-Independent Nitroxide Probes

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Supporting Information

Figure S1: MALDI-TOF spectrum of an R5a labeled DNA strand. Data for CS24_24T_R5a is shown. The measured mass (3901.73 Da) matches with the mass computed for the DNA strand with one R5a attached (3901.65 Da).

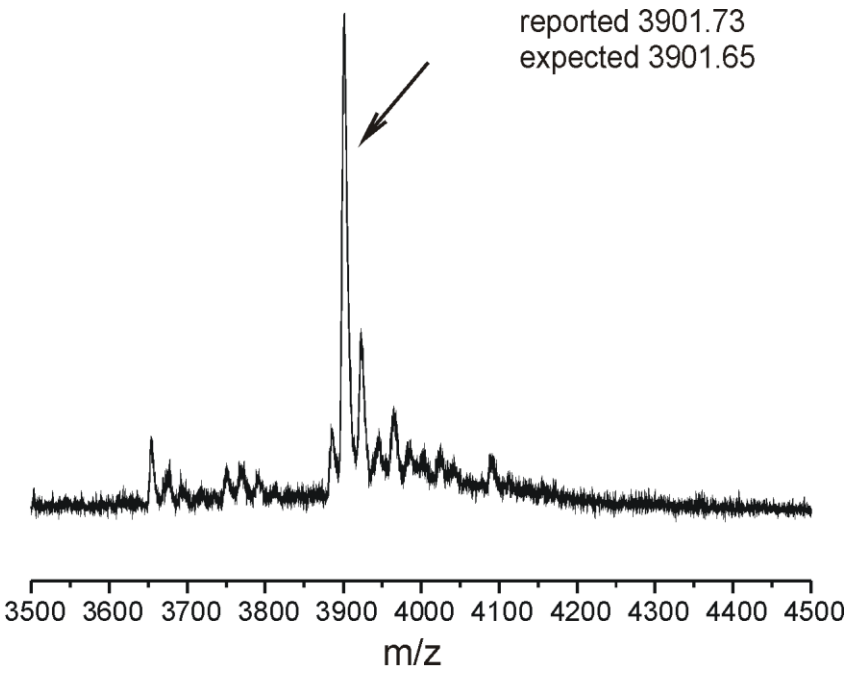

Figure S2: UV melting data for a wild type CS DNA and CS14_R5a. Experimental data are shown with black circles, and simulated melting curves are shown with red lines. The fitting parameters are shown.

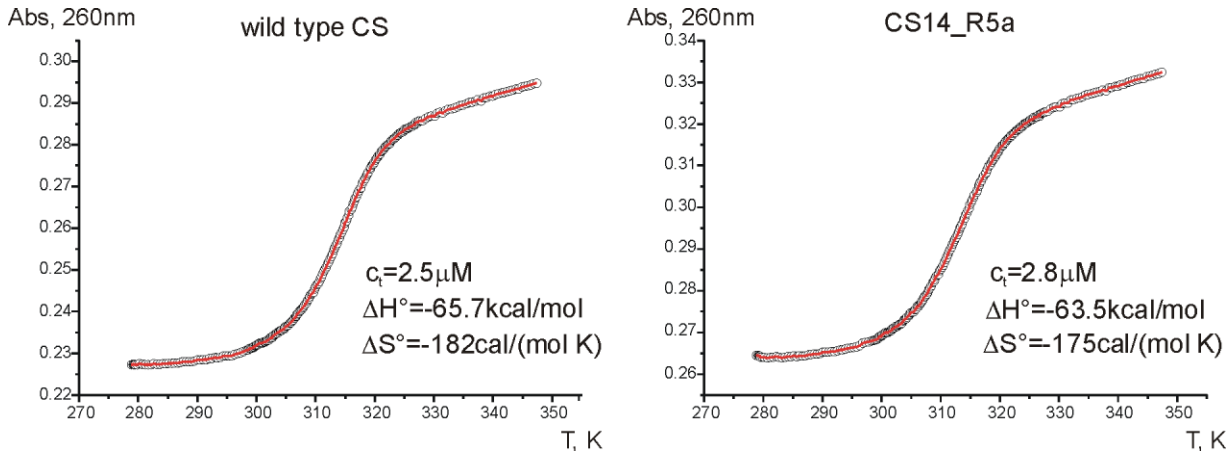

Figure S3: Reproducibility of CS 9_R5 and CS2_R5a spectra. (A) CS9_R5_1 and CS9_R5_2 samples were prepared from two different stocks of a phosphorothioate modified oligonucleotide (CS9). Their spectra were obtained 4-5 months apart. (B) CS2_R5a_1 and CS2_R5a_2 were prepared using the same stock of CS2, but different sucrose stocks. The spectra were obtained 2-2.5 years apart.