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Stability of the B conformation in wet-spun films of CaDNA. M. SCHWENKER, S.A. LEE, University of Toledo, A. RUPPRECHT, University of Stockholm — Highly oriented, wet-spun films of CaDNA have studied via Raman spectroscopy as a function of both water content and excess $CaCl_2$ concentration. The secondary structure of the double-helical DNA can be determined by monitoring the conformationally-sensitive vibrational modes at 807 cm^{-1} for A-DNA and 834 cm^{-1} for B-DNA. We find that the DNA molecules are in the B conformation between relative humidities of 98% and 75% for all salt contents.

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