Proposed structure for nucleic acids

Pauling & Corey Proc. Nat Acad Sci 39 84 (1953)

Used Astbury's published X-ray data & their own

- excluded equatorial reflections compatible with hexag. lattice — not true

16 A is not an equatorial reflection

(this is given as min. value for '100')

consists of this & 19A unit of density for 1.6 to 1.5

will lead to 2 residues / 3.4 A instead of 3

Not clear why structure which is so empty in its outer

parts must give by X-rays the outside diameter

(Helix has pitch 11.65 A and identity distance 81.5 A)

but long-line period is 34 A!

3-chain helix has identity period 27.2 A

but this is characteristic of structure A which has no 3.4 A reflection!