Proposed structure for nucleic acids

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

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

- concluded equatorial reflections compatible with hexag. lattice - not true

16 A is not an equatorial reflection

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

correction of this to 19A and of density from 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 and give by X-rays the outside diameter

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

but longer-line period is 34 A!

3-chain helix has identity period 27.2 A

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