SUMMARY

1. Log and stationary phases of E. invadens are dissimilar in morphology; the isolated log phase nuclei showed less dense chromatin structure than the stationary phase nuclei.

2. The chromatins of log and stationary phases are similar but differ from that of the higher organism, rat liver, The differences are evident in the UV light absorption spectrum, melting behavior, and structural composition.

3. The structural composition of the log and stationary phases depends partly on the method of isolation. However the amount of basic proteins does not appreciably vary with the method of isolation, while that of the nonhistone does.

4. The histones from log and stationary phases show similar electrophoretic pattern. Only slightly quantitative differences may be observed. However, their histone patterns differ significantly from those of higher organisms (rat liver and chicken erythrocyte).

5. Histone F_3 which had identical electrophoretic mobility in plants and animals may be the only common histone found in the five main histones from E. invadens.

6. The significance of these findings are briefly discussed.

BIOGRAPHY

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