

ΦX174 RF II DNA



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N3022S 122120414041

N3022S

30 µg **Lot: 1221204** **Exp: 4/14**
1,000 µg/ml **Store at -20°C**

Description: This is the double-stranded, nicked, circular form of ΦX174 DNA (relaxed form). The molecular weight of ΦX174 DNA is 3.50 X 10⁶ daltons it is 5,386 base pairs in length. Greater than 90% of the molecules are RF II, the remainder are RF I (supercoiled) and linear ΦX174 DNA.

Supplied in: 10 mM Tris-HCl (pH 8.0), 1 mM EDTA.

Preparation: ΦX174 RF II is prepared by relaxing (nicking) ΦX174 RF I DNA in high salt at 75°C. Greater than 90% of the molecules are in the RF II form as indicated by agarose gel electrophoresis.

References:

1. Sanger, F. et al. (1978) *J. Mol. Biol.* 125, 225.
2. Freifelder, D. and Dewitt, R. (1977) *Gene* 1, 385.

CERTIFICATE OF ANALYSIS

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