

φX174 RF I DNA



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N3021S 175120414041

N3021S

30 µg **Lot: 1751204** **Exp: 4/14**
1,000 µg/ml **Store at -20°C**

Description: This is the double-stranded, covalently closed, circular form of φX174 RF I DNA (supercoiled). The molecular weight of φX174 RF I is 3.50×10^6 daltons and it is 5,386 base pairs in length. Greater than 90% of the molecules are RF I, and the remainder are RF II, as determined by agarose gel electrophoresis.

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

Preparation: The φX174 RF I DNA is isolated from *E. coli* HF 4704 infected with φX174 *am3 cs70* by a modification of the method of Godson and Vapnek (nucleotide sequenced by F. Sanger).

References:

1. Sanger, F. et al. *J. Mol. Biol.*, 125, 225.
2. Godson, G. N. and Vapnek, D. (1973) *Biochem. Biophys. Acta.* 299, 516.

CERTIFICATE OF ANALYSIS

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