

## φX174 RF I DNA



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N3021S 177140116011

# N3021S

**30 µg**      **Lot: 1771401**      **Exp: 1/16**  
**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  $3.50 \times 10^6$  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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