

φX174 Virion DNA



1-800-632-7799
info@neb.com
www.neb.com



N3023S 124141016121

N3023S

50 µg **Lot: 1241412** **Exp: 12/16**
1,000 µg/ml **Store at -20°C**

Description: φX174 Virion DNA is the single-stranded viral DNA isolated from bacteriophage φX174 *am3 cs70*. It has a molecular weight of 1.70×10^6 daltons and is 5386 bases in length. Greater than 85% of the molecules are circular.

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

Preparation: The phage is grown in *E. coli* HF4704 and purified by cesium chloride density gradient centrifugation. The DNA is isolated from the purified phage by phenol extraction according to the procedure of Sinsheimer.

References:

1. Sanger, F., Coulson, A. R., Friedmann, T., Air, G. M., Barrell, B. G., Brown, N. L., Fiddes, J. C., Hutchison III, C. A., Slocombe, P. M. and Smith, M. (1978) *J. Mol. Biol.* 125, 225. The nucleotide sequenced strain of φX174 was kindly supplied by F. Sanger.
2. Sinsheimer, R. L. (1966). *Procedures in Nucleic Acid Research*. In Cantoni and Davies (Eds.), (p.569). Harper and Row.

CERTIFICATE OF ANALYSIS

φX174 Virion DNA



1-800-632-7799
info@neb.com
www.neb.com



N3023S 124141016121

N3023S

50 µg **Lot: 1241412** **Exp: 12/16**
1,000 µg/ml **Store at -20°C**

Description: φX174 Virion DNA is the single-stranded viral DNA isolated from bacteriophage φX174 *am3 cs70*. It has a molecular weight of 1.70×10^6 daltons and is 5386 bases in length. Greater than 85% of the molecules are circular.

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

Preparation: The phage is grown in *E. coli* HF4704 and purified by cesium chloride density gradient centrifugation. The DNA is isolated from the purified phage by phenol extraction according to the procedure of Sinsheimer.

References:

1. Sanger, F., Coulson, A. R., Friedmann, T., Air, G. M., Barrell, B. G., Brown, N. L., Fiddes, J. C., Hutchison III, C. A., Slocombe, P. M. and Smith, M. (1978) *J. Mol. Biol.* 125, 225. The nucleotide sequenced strain of φX174 was kindly supplied by F. Sanger.
2. Sinsheimer, R. L. (1966). *Procedures in Nucleic Acid Research*. In Cantoni and Davies (Eds.), (p.569). Harper and Row.

CERTIFICATE OF ANALYSIS