

**CERTIFICATE OF ANALYSIS**

**ΦX174 RF1 DNA**

**#SD0031** 50µg

**Lot:**

Concentration: 0.5µg /µl

**Store at -20°C.**

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**PRODUCT USE LIMITATION.**

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Please refer to [www.fermentas.com](http://www.fermentas.com) for Material Safety Data Sheet of the product.

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**Description**

ΦX174 RF1 DNA is isolated from *E.coli* strain HF4704 infected with ΦX174 am3 and purified by ion exchange chromatography. The molecule is a double-stranded circle, 5386 base pairs in length. GeneBank/EMBL accession numbers V01128, J02482, M10348, M10379, M10714, M10749, M10750, M10866, M10867, M24859.

For ΦX174 RF1 DNA Restriction Map see Fermentas Catalog, section "Appendix", or [www.fermentas.com/techinfo/NucleicAcids/mapfx174.htm](http://www.fermentas.com/techinfo/NucleicAcids/mapfx174.htm)

**Storage Buffer**

10mM Tris-HCl (pH 7.6), 1mM EDTA.

**Quality Control Assay Data**

Analysis	Specification	Result
1% agarose/TAE gel electrophoretic analysis of 0.5 and 1µg of DNA	More than 90% of the observed DNA is in the supercoiled form	passed
Absorption ratio: $A_{260/280}$	1.8-2.0	1.9
1% agarose/TAE gel electrophoretic analysis of homogeneity of BsuRI, HinfI and PstI fragmentation patterns	sharp and clearly distinguishable (without additional and smeary) bands	passed

**Quality authorized by:**

 Jurgita Zilinskiene