



## Product Information

### ΦX174 PHAGE DNA

Product No. **D5401**

Lot 118H0478

Store at 2 to 8°C

### PRODUCT SUMMARY

Suitable as substrate for most restriction endonucleases and as a supercoiled marker for gel electrophoresis.

$A_{260}/A_{280}$  Ratio: 1.8

Concentration: 9.58  $A_{260}$  units/ml

Size: 5,386 bp

Contains not less than 85% supercoiled (RF-1) DNA.

### STORAGE BUFFER

10 mM Tris-HCl, pH 7.5

1 mM EDTA

### SUITABILITY ASSAY

1  $\mu$ g of ΦX174 DNA was digested with 20 units of a restriction endonuclease that recognizes a single site on the DNA in a reaction containing the appropriate digestion buffer for 2 hours at 37°C. The correct band pattern was observed after loading 80-48 ng of the digest on a 0.85% agarose gel. The digest was subjected to electrophoresis at 80 V for 2 hours in 1X Tris Borate EDTA buffer (0.089 M Tris-Borate, 2 mM EDTA Sigma product no. T9525). By comparing the digests to the undigested ΦX174 DNA it was determined that the material contains no detectable linear DNA and that not less than 85% of the DNA is supercoiled.

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