

## Product Information

### Deoxyribonucleic acid from calf thymus Genomic, unsheared

Catalog Number **D4764**  
Storage Temperature 2–8 °C

#### Product Description

Calf thymus DNA is exceptionally useful as a substrate for DNA polymerase assays, in the amplification of very long fragments, and as a carrier DNA for precipitations.

This DNA product has been purified by equilibrium buoyant density ultracentrifugation in cesium chloride, dialyzed against a solution of 1 mM sodium chloride, 1 mM EDTA and 1 mM Trizma HCl, pH 7.5 and lyophilized at a concentration of ~2 A<sub>260</sub> units per mL

Unit Definition: One unit will yield an A<sub>260</sub> of 1.0 in 1.0 ml of 1 mM Tris-HCl, pH 7.5, with 1 mM NaCl and 1 mM EDTA (1 cm pathlength).

One mg of DNA is equivalent to ~20 A<sub>260</sub> units.

Molecular weight: 8-15 kb

The DNA quality and integrity are evaluated using gel electrophoresis and visualized after ethidium bromide staining. The DNA is free of RNA and contaminants that might interfere with restriction endonuclease digestion.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

Store the product at 2–8 °C.

#### References

1. Burgi, E., and Hershey, A.D., Sedimentation rate as a measure of molecular weight of DNA. *Biophys. J.*, **3**, 309 (1963).
2. Mandel, M., and Marmur, J., The use of Ultraviolet Absorbance-Temperature Profile for Determining the Guanine plus Cytosine content of DNA. *Methods Enzymol.*, **XII**, Part B, 195 (1968).

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