Saint Louis, Missouri 63103 USA
Telephone (800) 325-5832 (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

Deoxyribonucleic acid, Activated from calf thymus

Product Number **D 4522**
Storage Temperature –20 °C

CAS# 91080-16-9
Synonym: Activated calf thymus DNA

Product Description

The Activated Calf Thymus DNA is prepared by modification of a published method using calf thymus DNA (Product No. D 1501) and DNase I (Product No. D 4263).[1] It is suitable as a substrate for DNA polymerase.

The product is lyophilized from a DNA solution containing 1 mM Tris-HCl, pH 7.5, with 1 mM NaCl and 1 mM EDTA.

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.

Preparation Instructions

The lyophilized DNA should be reconstituted overnight at 2–8 °C to insure that all the material goes into solution. When the product is fully dissolved, the DNA concentration can be determined by measuring the absorbance at 260 nanometers (A_{260}) and using the following formula:

$$\mu g/ml \text{ of DNA} = A_{260} \times 50\ \mu g/ml \times DF$$

A_{260} = absorbance of the DNA solution at 260 nm
50 µg/ml = the concentration of 1 A_{260} unit of dsDNA
DF = the dilution factor (typically a 100-fold dilution with reconstitution buffer for a 1 mg/ml solution)

Storage/Stability

It is recommended to store the product at –20 °C.

References

1. Aposhian, H.V., and Kornberg, A., J. Biol. Chem., **237**, 519 (1962).

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