



## Product Information

### CALF THYMUS DNA, ACTIVATED

Product No, **D4522**

Lot No. 029H9080

#### PRODUCT SUMMARY

**Storage:** 2 to 8°C

**Suitability:** Suitable for use as a substrate for DNA polymerase.

**Buffer:** Lyophilized from a solution containing 1 mM Tris-HCl, pH 7.5, 1 mM NaCl, 1 mM EDTA and 3.31 mg/ml DNA

**Ratio  $A_{260}/A_{280}$ :** 1.9

#### Nick Translation Assay and Result

10 µg of D4522 were incubated at 37°C for 30 minutes in a 100 µl reaction containing 50 mM Tris-HCl, pH 7.2; 10 mM MgSO<sub>4</sub>; 1 mM DTT; 0.5 mg/ml BSA; 32.5 µM of dATP, dCTP, dGTP, and TTP, each; 50 µCi of α-<sup>32</sup>P-TTP (3000 Ci/mmol); and 20 units of DNA Polymerase (Sigma Catalog No. D 9380). 39% of the percent of total input α-<sup>32</sup>P- TTP counts was incorporated into TCA precipitable material.

#### COMMENTS

Activated Calf Thymus DNA was prepared by a modification of the method of Aposhian and Kornberg using calf thymus DNA (D1501) and deoxyribonuclease Type I (D9380).

For laboratory use only. Not for drug, household or other uses.

#### Reference:

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

CAS # [91080-16-9]

10/99

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.