

## Native Wheat germ Topoisomerase I

Cat. No. NATE-0709

Lot. No. (See product label)

### Introduction

**Description** Topoisomerase I relaxes supercoiled DNA molecules. The enzyme initiates transient breakages and rejoins of phosphodiester bonds in superhelical turns of closed-circular DNA. Enzyme activity is independent of right-and left-handed superhelices.

**Applications** Suitable for: • Analysis of degree of DNA supercoiling • Forming knots and circles in single stranded DNA • Converting complementary single stranded DNA to double stranded, circular forms • Rejoining nicks in double-stranded DNA

**Synonyms** Topoisomerase I; EC 5.99.1.2; type I DNA topoisomerase; untwisting enzyme; relaxing enzyme; nicking-closing enzyme; swivelase; ω-protein; deoxyribonuclease topoisomerase; topoisomerase; type I DNA topoisomerase; DNA topoisomerase; TOPO I

### Product Information

**Source** Wheat germ

**Form** buffered aqueous glycerol solution

**EC Number** EC 5.99.1.2

**CAS No.** 80449-01-0

**Molecular Weight** mol wt 97 kDa

**Unit Definition** One unit will convert 1μg of supercoiled pGEM9Zf (–) plasmid DNA to the relaxed form in 30 min at 37°C.

### Storage and Shipping Information

**Storage** –70°C