

# User Manual

Version 3.0

**Product name:** T4 Endonuclease VII

**Cat #:** TS-100, TS-200, TS-OEM

## Description:

T4 Endonuclease VII is a DNA junction specific endonuclease (also referred to as a resolvase or a cleavase). T4 Endonuclease VII functions in vivo to resolve branched DNA structures in newly synthesized DNA. It also recognizes mismatches, insertion or deletion loops, gaps, and apurinic/apyrimidinic sites, and creates nicks in the DNA strands at these sites. The wide variety of substrates accepted suggests that T4 Endonuclease VII recognizes changes in the structure or conformation of DNA rather than binding to a specific sequence. It has also been crystallized as a dimer.

## Protocol:

1500 units (15 ng) of T4 Endonuclease VII degrades 50% of 100 fmol TAMRA labeled double-stranded 24-mer oligonucleotide substrate in 15 minutes at 37°C in 50mM Tris-HCl, pH 8.0, 10mM MgCl<sub>2</sub>, 10mM β-ME and 0.5 μg/μl BSA.