MCLAB
Molecular Cloning Laboratories

User Manual

Version 1.0
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Product name: T4 Endonuclease V

Cat #: T4EV-100, T4EV-200, T4EV-300, T4EV-OEM

Description:
Also known as T4 PDG, the enzyme has DNA glycosylase and apurinic/apyrimidinic lyase (AP lyase) activity. The protein recognizes cis-syn- cyclobutane pyrimidine dimers caused by UV light. T4 Endonuclease V binds to pyrimidine dimers in double-stranded DNA, then cleaves the glycosyl bond of the 5'-pyrimidine dimer and cleaves the phosphodiester bond 3' to the resulting basic site.

Application:
- Used in single cell gel eletrophoresis
- Studies of DNA damage by UV

Source:
Purified from an E. coli strain carrying a plasmid encoding T4 denV gene.

Unit Definition:
One unit converts 1µg of UV irradiated supercoiled DNA to nicked plasma in 30 minutes at 37°C.

Storage Buffer:
Supplied in 50% Glycercol, 50 mM Tris-HCL(pH 7.5), 0.1 mM EDTA, 1 mM DTT, 100 mM NaCl, 0.1% Triton X-100

Recommended Storage Conditions: -20°C