DESCRIPTION

Panonuclease is an ultra-pure recombinant form of *Serratia marcescens* extracellular endonuclease (encoded by the same gene as for Benzonase, EC: 3.1.30.2) produced in *E. coli* using a proprietary process.

BACKGROUND

Panonuclease is effective in degrading all forms of DNA and RNA. It is used for removing nucleic acids from recombinant proteins, and in other applications where removal of nucleic acids is desirable. It reduces cell clumping and viscosity during cell lysis and purification. It provides better resolution of proteins and enzymes that bind nucleic acids during chromatography and electrophoresis.

BIOACTIVITY

Unit definition: One unit will digest sonicated salmon sperm DNA to acid-soluble oligonucleotides equivalent to a ΔA_{260} of 1.0 in 30 min at pH 8.0 at 37 °C (reaction volume 2.625 mL).

FORMULATION

20 mM Tris-HCl pH=8.0, 2 mM $MgCl_2$, 20 mM NaCl, 50% glycerol.

STORAGE TEMP

-20°C