

Nuclease, Micrococcal (S7)

Source: *Staphylococcus aureus* (Strain ATCC #27735)

I.U.B.: 3.1.31.1

Micrococcal nuclease catalyzes cleavage of both DNA and RNA to yield 3'-nucleotides. It exhibits exo- and endo-5'-phosphodiesterase activities. The enzyme catalyzes preferential endohydrolysis of the RNA and DNA at sites rich in adenylate or uridylate and deoxyadenylate or thymidylate. The enzyme has a molecular weight of 16,807 daltons and is calcium dependent. The pH optimum is 9.2 but varies depending upon the concentration of ionized calcium present.

Unit Definition: One Unit corresponds to a change in optical density of 1.0 at 260 nm at 37° C, pH 8.0, using DNA as the substrate.

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Code: NFCP

Chromatographically purified to be essentially homogeneous chromatographically and electrophoretically (SDS-PAGE). A lyophilized powder. Store at 2-8° C.

Source: *Staphylococcus aureus* (Strain Foggi)

Minimum Activity: ≥6,000 units per mg protein

Cat#	Pack Size
LS004797	15 ku
LS004798	45 ku
LS004796	Bulk