

## **Endonuclease from *Proteus mirabilis***

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### **Abstract**

Two isoforms of nuclease displaying DNase and RNase activities were found in the culture liquid and periplasm of *Proteus mirabilis*. The enzyme was isolated from the periplasm and then purified to a functionally homogeneous state. The nuclease was equally potent in cleaving denatured and native DNAs by the endonuclease mechanism and was designated Pm endonuclease. The endonuclease was shown to be a temperature-dependent enzyme with a pH optimum of 10.4-10.6, requiring the presence of bivalent metal ions and inhibited by citrate and ethylenediaminetetraacetate. © 2001 MAIK "Nauka/Interperiodica".

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