



Product Information & Manual

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Nuclease

Cat no. LDG0006RG

Product Overview

Package component

Specification	Item	Amount
25 KU	Nuclease	1 vial (250 U/μL)
250 KU	Nuclease	1 vial (250 U/μL)

Description

Nuclease is a genetically engineered endonuclease from *Serratia marcescens*, it is produced and purified from *E. coli*. The enzyme is a non-specific nuclease, which effectively degrades single-stranded, double-stranded, linear, and circular DNA and RNA over a wide temperature and pH range.

Source

Escherichia coli

Activity

One unit of Nuclease is defined as the amount of enzyme that causes a ΔA_{260} of 1.0 in 30 min, which corresponds to complete digestion of 37 μg of DNA. (Note that 1 KU=1,000 U)

Storage buffer

The enzyme is supplied in 20 mM Tris-HCl pH 8.0, 20 mM NaCl, 2 mM MgCl₂ and 50% glycerol

Storage and Stability

Stored at -20°C. Avoid repeated freeze/thaw cycles.

Procedure

Set up the following reaction.

Sample Type	Sample Amount	Lysis Buffer Amount (RIPA buffer)	Nuclease
<i>E. coli</i>	Pellet from 500 μL culture	100 μL	1 -2 μL
Cell	10 ⁶ -10 ⁷	100 μL	1 -2 μL

Important notes

For safety, use protective equipment to avoid eye, face, and skin contact.

The amount of Nuclease required for nucleic acid hydrolysis can be adjusted as appropriate.

Disclaimer

This product is for research use only and is not intended for diagnostic use.

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