

Nuclease

v. 230801

Catalog number	C09004-25KU / C09004-250KU			
Package & Component	Cat.	Name	Amount	
	C09004-25KU	Nuclease (250 U/μL)	25 KU	
	C09004-250KU	Nuclease (250 U/μL)	250 KU	
Description	<p>Nuclease is a genetically engineered endonuclease from <i>Serratia marcescens</i>, it is produced and purified from <i>E. coli</i>. 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.</p>			
Source	Escherichia coli			
Purity	>95% as determined by SDS-PAGE analysis.			
Unit Definition	<p>One unit of Nuclease is defined as the amount of enzyme that causes a ΔA260 of 1.0 in 30 min, which corresponds to complete digestion of 37 μg of DNA. (Note that 1 KU=1,000 U)</p>			
Storage Buffer	<p>Nuclease is supplied in 20 mM Tris-HCl pH 8.0, 150 mM NaCl, 2 mM MgCl₂ and 50% glycerol</p>			
Stability & Storage	<p>This product is stable after storage at:</p> <ul style="list-style-type: none"> -20°C for -80°C long-term storage under sterile conditions. <p>Avoid repeated free-thaw cycles.</p>			
Manuel	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
Notes	<p>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.</p>			

For Research Use Only.