

PANDEMIT UNIVERSAL NUCLEASE (DMF FILED)

A high-quality, highly active, non-animal-derived universal nuclease.

PanDemit Universal Nuclease is a genetically engineered endonuclease derived from *Serratia marcescens*. It can digest various forms of DNA and RNA into 5'-monophosphate oligonucleotides (3–5 bases in length), and is also referred to as a “universal nuclease”

PRODUCT FEATURES

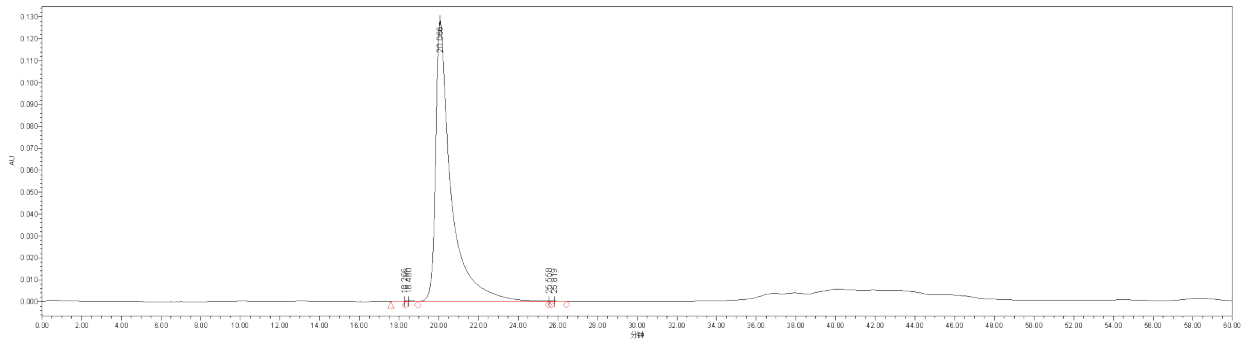
- Animal-free and ampicillin-free
- High specific activity with superior nucleic acid digestion efficiency
- Advanced tag-free purification process eliminates the risk of metal ion contamination associated with traditional His-tag methods
- Strict quality control standards, low endotoxin level, ensuring the accuracy of unit enzyme activity and batch-to-batch stability

APPLICATION SCENARIOS

- Widely used in virus purification processes in fields such as vaccines, cell and gene therapy

EXPERIMENTAL DATA

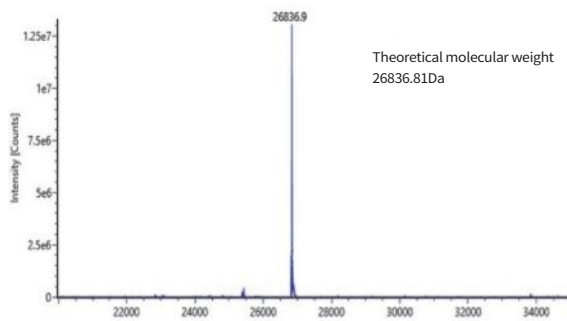
1. SEC-HPLC Purity Determination



PanDemit SEC-HPLC Purity Analysis

Size exclusion chromatography shows high purity, no aggregates are produced, and the purity reaches 99.72%

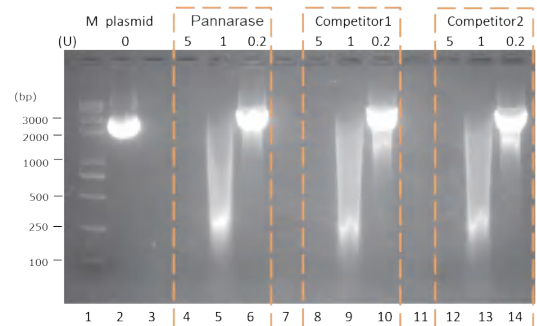
2. LC-MS Detection



PanDemit LC-MS Results

Liquid chromatography–mass spectrometry analysis shows that the protein molecule is consistent with the theoretical value, there are no impurity peaks, and the structure is uniform.

3. Enzyme Digestion Experiment



Digestion Performance Comparison: Nucleases from Different Manufacturers

Reaction conditions: In a 20 μ L reaction system, the concentration of plasmid DNA is 1mg/ml. Compared with imported brand nucleases, it has excellent enzymatic digestion activity on plasmid DNA.

ORDERING INFORMATION

Product	Grade	Cat.No.	Specification
PanDemit Universal Nuclease	RUO Grade	CS-PD-100	100,000 U
PanDemit Universal Nuclease	RUO Grade	CS-PD-500	500,000 U
PanDemit Universal Nuclease	GMP Grade	CS-GPD-100	100,000 U
PanDemit Universal Nuclease	GMP Grade	CS-GPD-500	500,000 U
PanDemit Universal Nuclease	GMP Grade	CS-GPD-5000	5,000,000 U