

Virus purification and detection products

PANDEMIT UNIVERSAL NUCLEASE (DMF FILED)

High-quality, highly active non-animal-derived universal nuclease

PRODUCT DESCRIPTION

PanDemit Universal Nuclease is a genetically engineered endonuclease derived from *Serratia marcescens*. It can degrade various types of DNA and RNA into 5'-monophosphate oligonucleotides with a length of 3 to 5 bases, and is also known as the "universal nuclease".

PRODUCT FEATURES

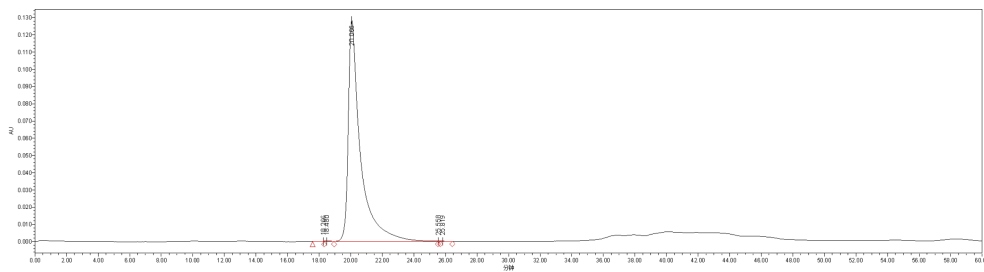
- ▶ Animal-free and ampicillin-free
- ▶ Outstanding specific enzyme activity and more efficient nucleic acid degradation ability
- ▶ Advanced production process, non-traditional His-tag purification to eliminate the risk of introducing metal ions
- ▶ Strict quality control standards, low endotoxin level, 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

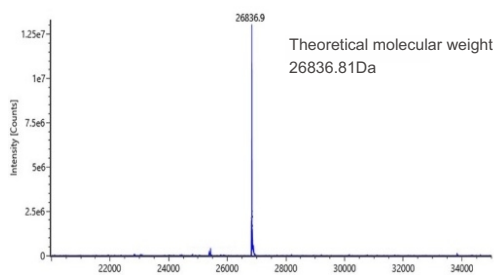
1. SEC-HPLC purity determination



PanDemit SEC-HPLC Purity Analysis

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

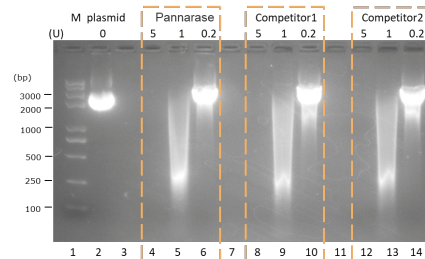
2. LC-MS Detection



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



Compare the enzymatic digestion effect diagrams of nucleases from different brands

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

ORDERING INFORMATION

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