

LAMBDA DNA

PRODUCT DETAIL



Lambda Phage DNA is a widely used molecular biology tool, serving as a standard for DNA size determination, cloning, and PCR applications. It is a double-stranded DNA virus that infects *Escherichia coli* and has a well-characterized genome of approximately 48.5 kb. At a concentration of 100 ng/μL, Lambda DNA is ideal for various enzymatic reactions, including restriction digestion and electrophoresis. This concentration ensures consistent and reliable results in molecular biology workflows. Lambda Phage DNA is commonly used in research and diagnostics due to its high purity and stability, making it an essential component in many laboratories worldwide.

CATALOG

- **R2801 - 0.5ml (100ng/μL) (50μg)**
- **R2802 - 2.5ml (100ng/μL) (250μg)**

APPLICATIONS

- **Molecular Weight Marker** – Used as a size standard in agarose gel electrophoresis.
- **Restriction Enzyme Studies** – Serves as a substrate for testing and optimizing restriction digestion.
- **Cloning & Vector Construction** – Source of fragments for recombinant DNA experiments.
- **PCR & qPCR Control** – Used as a positive control in polymerase chain reactions.
- **Genomics & Teaching** – Ideal for demonstrating DNA manipulation techniques in educational labs.

QUALITY CONTROL

Nuclease Test

No contamination of endo or exonucleases were detected. No contamination of RNase detected.

Purity

A bright single band is observed when 25ng is loaded on the 1% agarose gel.

MORE INFORMATION

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