



Product Sheet

(67464)

Please read this FIRST



Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Shipping Information

Distributed: freeze-dried

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PO Box 1549
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Product Description

Organism: *Escherichia coli* bacteriophage lambda

Batch-Specific Information

Refer to the Certificate of Analysis for batch-specific test results.

SAFETY PRECAUTION

ATCC highly recommends that protective gloves and clothing always be used and a full face mask always be worn when handling frozen vials. It is important to note that some vials leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vessel exploding or blowing off its cap with dangerous force creating flying debris.

Unpacking & Storage Instructions

1. Check all containers for leakage or breakage.
2. Remove the frozen cells from the dry ice packaging and immediately place the cells at a temperature below -130°C, preferably in liquid nitrogen vapor, until ready for use.

Comments

Restriction digests of the clone give the following sizes (kb): ClaI--14.5, 0.3; KpnI--14.8; BglII/KpnI--11.0, 3.5, 0.3.

To maintain the plasmid, grow at 30C with ampicillin and kanamycin selection.

Thermal induction (at 42C) of the Mu cts lysogen containing the plasmid yields a low titer phage lysate.

Lysates should be used within 1 week of preparation because the clones can be unstable.

Infection of sensitive, Mu cts lysogenic *E. coli* strains and growth at 30C yields two types of kanamycin-resistant isolates: ampicillin-sensitive strains (integrants) that carry no plasmid DNA, and ampicillin-resistant strains that contain the plasmid.

Host integration vector for adapting *E. coli* strains as hosts for att-Int mediated rearrangement and regulation of lambda-based expression vectors.

Constructed by insertion of a lambda gene cassette into the bacteriophage Mu based vector pEG5005 (ATCC 67463), which is defective for the morphogenic functions.

Propagation

Complete Growth Medium

ATCC® Medium 1948: LB medium (ATCC medium 1065) with 50 mcg/ml ampicillin and 20 mcg/ml kanamycin

References

References and other information relating to this product are available online at www.atcc.org.



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Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

ATCC Warranty

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