**Description**

**Designation:** P1 [ATCC 11303-B23, P1kc]
**Deposited Name:** P1
**Product Description:** Transducing phage

**Propagation**

**Medium**
- ATCC® Medium 1065: LB Agar/Broth, Miller

**Growth Conditions**
- Temperature: 37°C
- Atmosphere: Aerobic

**Propagation Procedure**

1. Follow general procedures given below for phage propagation.
2. Use *Escherichia coli* strain K-12 (ATCC® 25404™) as host.

**GENERAL PROCEDURES FOR THE PROPAGATION OF BACTERIOPHAGE**

To recover phage from freeze-dried or thawed frozen vial:

1. Prepare an actively growing broth culture of the recommended host strain before opening the phage specimen. The host should be in early log phase.
2. Add approximately 1.0 mL of the recommended broth to a freeze-dried phage vial, 0.5 mL to a liquid cryovial.
3. Pre-warm plates of the recommended medium in an incubator. Overlay the surface with 2.5 mL of melted 0.5% agar (same medium) that contains one or two drops of the freshly grown host. The soft agar should be maintained at 43°C to 45°C until ready to pour. It may be advisable to use a water bath. Allow overlay to harden.
4. The re-hydrated phage can be serially diluted by passing 0.5 mL of the phage into a tube containing 4.5 mL of the broth medium. Repeat for as many passages as desired.
5. 0.1 mL of each dilution is spotted on the surface of the prepared plates. Allow to dry. Three to four dilutions can be placed on each plate. After 24 hours incubation, lysis should be visible. At the higher dilutions, individual plaques should be countable.
6. Many strains may also be titrated without a soft-agar overlay. Pipette approximately 1.0 mL of the host onto the surface of each plate. After tilting plate to ensure the entire surface is covered, the excess liquid is aspirated off. After the surface dries, the various dilutions of the phage are dropped onto the surface as before.

**Notes**

Areas of complete lysis may have a few resistant colonies present.
References and other information relating to this product are available online at [www.atcc.org](http://www.atcc.org).

**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.

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