Bacteriophage phi05_1387B/Ec1457, Infectious for Escherichia coli

Catalog No. HM-675

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:

- **Virus Classification**: Caudovirales, Myoviridae, Unclassified Myoviridae
- **Species**: Bacteriophage phi05_1387B/Ec1457
- **Host**: Escherichia coli
- **Original Source**: Bacteriophage phi05_1387B/Ec1457 was isolated from blood taken from a patient with septicemia.
- **Comments**: Bacteriophage phi05_1387B/Ec1457 (HMP ID 9785) is a reference genome for The Human Microbiome Project (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of bacteriophage phi05_1387B/Ec1457 is currently being sequenced at the J. Craig Venter Institute.
- **Note**: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

Bacteriophage phi05_1387B/Ec1457 is a highly selective virus that is extremely effective at lysing Escherichia coli (E. coli), a major facultative inhabitant of the large intestine. Bacteriophage phi05_1387B/Ec1457 belongs to the unclassified Myoviridae family of viruses, which are non-enveloped and display contractile, filamentous tails, linear dsDNA, and hexagonal capsids.

Material Provided:

Each vial contains approximately 0.5 mL of bacteriophage in Luria-Burtani (LB) Broth supplemented with 10 mM MgSO₄ and 20% glycerol.

Packaging/Storage:

HM-675 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. For long-term storage, the product should be stored at -80°C or colder or in the vapor phase of a liquid nitrogen freezer. Freeze-thaw cycles should be avoided.

Growth Conditions:

- **Host**: E. coli (strain Ec1457 recommended)
- **Growth medium for host**: Tryptic Soy Broth or equivalent
- **Incubation of host**: Temperature: 37°C
- **Atmosphere**: Aerobic
- **Propagation of bacteriophage**:
  - **Temperature**: 30°C
  - **Atmosphere**: Aerobic
  - **Incubation of host with bacteriophage**: 37°C for 24 hours.

Disclaimers:

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References:
1. Dennis Bamford, personal communication
2. HMP ID 9785 (Bacteriophage Phi05_1387B/Ec1457)

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