



Product Sheet

## G (ATCC® 43725-B1™)

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.

### Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: G (ATCC® 43725-B1™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

### Description

Designation: G [HER 276]

Deposited Name: G

### Propagation

#### Propagation Procedure

1. Follow general procedures given below for phage propagation.
2. ATCC 43725, *Bacillus megaterium* PGH, is recommended as host.

#### GENERAL PROCEDURES FOR THE PROPAGATION OF BACTERIOPHAGE

To recover phage from vial:

- a. Use 0.5 ml of the phage suspension to 0.5 ml of an overnight host suspension in 20 ml of #1652 broth.
- b. Shake for 6 hours at 30°C.
- c. Add chloroform to 1% volume. Mix gently for several minutes.
- d. Centrifuge at 4000 rpm for 20 minutes.
- e. The supernatant will be your crude lysate. You can store it as is in the refrigerator (4°C), or further purify.

To propagate phage:

- a. Prepare FRESH plates or large (600 ml) Tlflask with a layer of #1652 agar.
- b. Melt tubes of soft agar and hold at 45°C in a water bath.
- c. For each plate you will need 2.0 ml of melted soft agar to which you will add approximately 0.1 ml of a 24 hour host suspension and 0.1 ml of the phage lysate. For a Tlflask, you will need 12.0 ml of soft agar to which is added 0.5 ml of the 24 hour host suspension and 0.5 ml of the phage lysate.
- d. Pour the mixture over the surface of plates or flask and allow to harden.
- e. Incubate for 24 to 48 hours at 30°C.
- f. Flood the surface of the plates with 1.0 ml of phage buffer, 5.0 ml for Tlflask. Allow to sit for 1 to 2 hours at 30°C.
- g. Scrape off the soft agar layer along with the buffer and place into centrifuge tubes. Centrifuge at 4000 rpm for 20 minutes to remove cellular and agar debris.
- h. Decant supernatant and store at 4°C over chloroform. Do not filter.

### Notes

Plaques are 0.1mm in diameter and hazy.

We have been unsuccessful at either freezing or freeze-drying this phage. It will remain viable at 4°C for an indefinite length of time. Each vial contains 0.5 ml of crude phage lysate. The titer when last checked was  $>1 \times 10^8$  pfu/ml.

Largest phage known, unique morphology (springlike spiral around sheath). Contains more DNA than any other virus (500Md = 750 kb); DNA glucosylated.

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

### References

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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### Disclaimers

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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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