ATCC

Product Sheet

G (ATCC® 43725-B1™)

Please read this FIRST

Biosafety Level
1

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

800.638.6597 or 703.365.2700
Fax: 703.365.2750
Email: 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 30ºC.
c. Add chloroform to 1% volume. Mix gently for several minutes.
d. Centrifuge at 4000 rpm for 20 minutes.
e. The supernatent will be your crude lysate. You can store it as is in the refrigerator (4ºC), or further purify.

To propagate phage:

a. Prepare FRESH plates or large (600 ml) T□flask with a layer of #1652 agar.
b. Melt tubes of soft agar and hold at 45ºC 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 T□flask, 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 30ºC.
f. Flood the surface of the plates with 1.0 ml of phage buffer, 5.0 ml for T□flask. Allow to sit for 1 to 2 hours at 30ºC.
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 supernatent and store at 4ºC 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 4ºC for an indefinite length of time. Each vial contains 0.5 ml of crude phage lysate. The titer when last checked was >1 x 10^8 pfu/ml.

Largest phage known, unique morphology (spring□like 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.

References

References and other information relating to this product are available online at 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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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at www.atcc.org

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