ATCC

Product Sheet

Staphylococcus aureus subsp. aureus bacteriophage 75 (ATCC® 27698-B1™)

Please read this FIRST

Storage Temp.
Store filtrate at 4°C. Storage at 20°C may cause inactivation of the phage.

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: *Staphylococcus aureus subsp. aureus bacteriophage 75* (ATCC® 27698-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: 75
Deposited Name: 75

Propagation

Medium
ATCC® Medium 1831: Nutrient Broth/Agar w/ 400ug/ml Calcium Chloride

Growth Conditions
Temperature: 37°C
Atmosphere: Aerobic

Propagation Procedure

1. Follow instructions below for titrating or propagating phage.
2. The preferred method of propagation for this phage is broth culture, using *Staphylococcus aureus* subsp. *aureus* strain CDC 75 (ATCC® 27698™) as propagation host.

GENERAL PROCEDURES FOR THE PROPAGATION OF BACTERIOPHAGE
To titrate phage:

1. Phage may be propagated by preparing plates with the soft-agar/host overlay as above and covering the surface with approximately 0.5 mL of the concentrated phage. Or, alternatively, you may add the phage directly to the melted agar/host before pouring over the plates. For larger amounts, large-size T-flasks can be prepared with the recommended agar, and approximately 12.0 mL of melted soft-agar/host poured over the surface. Phage is then allowed to run over hardened surface. Phage may also be added directly to melted soft-agar before pouring as described above.
2. After 18 to 24 hours incubation, the soft agar is scraped off the surface of the agar plates. Centrifuge at about 1000 rpm for 25 minutes to sediment the cellular debris and agar. Conserve the supernatant.
3. This supernatant is passed through a .22 µm Millipore filter and the filtrate stored at 4-8°C. Lysates should remain viable under refrigeration for long periods. They may also be frozen with or without cryoprotectant. If available, liquid nitrogen storage is the best method for long term storage. Most phage can also be freeze-dried. We use double-strength skim milk mixed half-and-half with the filtrate.
   NOTE: Broth propagation methods may also be employed with most phage (*see below*). Unless otherwise noted, ATCC uses the Adams agar-overlay method as described in M. H. Adams' Bacteriophages (Interscience Publishers, Inc., New York, 1959) for routine phage production.

For broth propagation:

a. An overnight broth culture of the above host is aseptically transferred into a flask of the recommended broth so that a 1:100 dilution of the culture is achieved.
b. To this, add the rehydrated phage. Incubate for 6 hours with shaking.
c. Harvest, centrifuge, and filter as described above.

Notes

Plaques on #1831 are irregular, hazy, and entire.
Most staphylococcal phages will not produce marked clearing of a broth culture, and a somewhat turbid broth may or may not yield high-titer phage. Phage resistant cells within the flask rapidly reproduce and form a turbid suspension concurrent with active phage liberation by sensitive cells. It is therefore necessary to check the titer and repeat the process if insufficient phage have been produced.
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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

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for Health.

ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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