



Staphylococcus aureus **subsp. *aureus*** **bacteriophage 75**

27698-B1™

Description

Strain designation: 75

Deposited As: 75

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Host: *Staphylococcus aureus subsp. aureus* CDC 75 (ATCC 27698)

Medium:

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

Temperature: 37°C

Atmosphere: Aerobic

Handling Procedures

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

***Staphylococcus aureus* subsp. *aureus* bacteriophage 75**

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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.

Store filtrate at 4°C. Storage at 20°C may cause inactivation of the phage. Additional information on this culture is available on the ATCC® web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Staphylococcus aureus* subsp. *aureus* bacteriophage 75 (ATCC 27698-B1)

References

References and other information relating to this material are available at www.atcc.org.

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