



Product Sheet

# *Sulfurovum lithotrophicum* (ATCC® BAA-797™)

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: *Sulfurovum lithotrophicum* (ATCC® BAA-797™)

## Description

**Designation:** 42BKT

**Deposited Name:** *Sulfurimicrosoma lithotrophicum*

## Propagation

### Medium

ATCC® Medium 2690: MJ Base and Sea Water Medium, BAA-797

### Growth Conditions

**Temperature:** 26-30°C

**Atmosphere:** Anaerobic or microaerophilic

### Propagation Procedure

1. Prepare tubes to be inoculated by exchanging the gas in the head space for fresh N<sub>2</sub>-CO<sub>2</sub>. Growth occurs chemolithoautotrophically with elemental sulfur or thiosulfate as an electron donor and with oxygen or nitrate as an electron acceptor and using CO<sub>2</sub> as the carbon source. The optimum concentration of oxygen is 5%. When grown anaerobically the culture is stimulated by the addition of sodium sulfide (0.05% final concentration). The medium does not need to be pre-reduced before inoculation.
2. Open vial according to enclosed instructions.
3. Using a single tube of #2690 broth (5 to 6 ml), withdraw approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml pipette. Rehydrate the entire pellet.
4. Aseptically transfer this aliquot back into the broth tube. Mix well.
5. Use several drops of the suspension to inoculate additional tubes of broth, agar slants and/or plates.
6. Incubate the tubes and plates at 26-30°C for 2-3 days under anaerobic or microaerophilic conditions.

## Notes

Within 2 to 3 days growth should be evident by turbidity in the broth tube(s). 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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the misidentification or misrepresentation of such materials.

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](http://www.atcc.org)

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

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