Sulfurovum lithotrophicum Inagaki et al.

BAA-797™

Description

Strain designation: 42BKT
Deposited As: *Sulfurimicrosoma lithotrophicum*
Type strain: Yes

Storage Conditions

Product format: Freeze-dried

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

Medium:
ATCC Medium 2690: MJ Base and Sea Water Medium, BAA-797
Temperature: 26-30°C
Atmosphere: Anaerobic; Microaerophilic

Handling Procedures

1. Prepare tubes to be inoculated by exchanging the gas in the head space for fresh N_2-CO_2. Growth occurs chemolithoautorophically with elemental sulfur or thiosulfate as an electron donor and with oxygen or nitrate as an electron acceptor and using CO_2 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.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Sulfurovum lithotrophicum* Inagaki et al. (ATCC BAA-797)

References

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

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Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor