



Product Sheet

Streptococcus mitis (ATCC® 49456™)

Please read this **FIRST**



Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section



Biosafety Level
2

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: *Streptococcus mitis* (ATCC® 49456™)

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: NCTC 12261 [NS 51]

Deposited Name: *Streptococcus mitis* Andrewes and Horder emend. Judicial Commission

Product Description: Type strain

Propagation

Medium

ATCC® Medium 44: Brain Heart Infusion Agar/Broth

ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

Growth Conditions

Temperature: 37°C

Atmosphere: Aerobic

Propagation Procedure

1. Open vial according to enclosed instructions.
2. Using a single tube of #44 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.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a #260 agar slant and/or plate.
5. Incubate the tubes and plate at 37°C for 24 hours.

Notes

Colonies on a #260 plates are pinpoint, smooth, entire, and glistening and exhibit α -hemolysis. Growth may be enhanced by 5% CO₂.

Several Genbank accessions are available for this item:

1. Nucleotide (GenBank) : AF003929 *Streptococcus mitis* 16S ribosomal RNA gene, complete sequence.
2. Nucleotide (GenBank) : AF276269 *Streptococcus mitis* elongation factor Tu (tuf) gene, partial cds.
3. Nucleotide (GenBank) : AX110216 Sequence 949 from Patent WO0123604.
4. Nucleotide (GenBank) : AX110250 Sequence 983 from Patent WO0123604.
5. Nucleotide (GenBank) : AX110456 Sequence 1189 from Patent WO0123604.
6. Nucleotide (GenBank) : AX110847 Sequence 1580 from Patent WO0123604.
7. Nucleotide (GenBank) : AX111139 Sequence 1872 from Patent WO0123604.
8. Nucleotide (GenBank) : AX111541 Sequence 2274 from Patent WO0123604.

Purified genomic DNA of this strain is available as ATCC® 49456D-5™.

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: 2

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.

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




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

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This product is sent with the condition that you are responsible for its safe storage, handling, and use. ATCC is not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to insure authenticity and reliability of strains on deposit, ATCC is not liable for damages arising from the misidentification or misrepresentation of cultures.

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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