





Product Sheet

Trypanosoma cruzi (ATCC® 50824™)

Please read this FIRST



Storage Temp.
Frozen: -70°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Protocols 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: *Trypanosoma cruzi* (ATCC® 50824™)

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
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Or contact your local distributor

Description

Strain Designation: SYLVIO-X10 CL7

Deposited Name: *Trypanosoma cruzi* Chagas

Depositor: JA Dvorak

Isolation: Clone 7 derived from strain SYLVIO X10 (ATCC 50823)

Propagation

Growth Conditions

Temperature: 20°C to 25°C

Culture System: Axenic

Medium

ATCC® Medium 1029: LIT medium

Protocols

Storage and Culture Initiation

Frozen ampules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.

1. To thaw a frozen ampule, place it in a 35°C water bath, until thawed (2-3 min). Immerse the ampule just enough to cover the frozen material. Do not agitate the ampule.
2. Immediately after thawing, aseptically transfer contents to a T-25 tissue culture flask containing 10 mL of ATCC Medium 1886. Incubate at 25°C.

Culture Maintenance

1. Agitate a culture at or near peak density by inverting several times.
2. Aseptically transfer a 0.1 mL aliquot to a T-25 tissue culture flask containing 10 mL of fresh complete medium.
3. Screw cap on tightly and incubate at 20-25°C.
4. Subculture every 14-21 d.

Cryopreservation

Harvest and Preservation


1. Harvest cells from several cultures in very late logarithmic to early stationary phase of growth. Vigorously agitate to suspend the cells.
2. Aseptically transfer the cell suspension to 15 mL plastic centrifuge tubes.
3. Centrifuge at ~800 x g for 5 min.
4. While cells are centrifuging, prepare a 10% solution of DMSO in complete ATCC Medium 1029. Cool on ice.
5. Remove the supernatant and pool the cell pellets to the final volume desired with fresh growth medium.
6. Combine the cell suspension with an equal volume of 10% DMSO cryoprotectant solution (prepared in step 4) to yield a final concentration of 5% DMSO.
7. Dispense in 0.5 mL aliquots to 1.0-2.0 mL Nunc vials (special plastic vials for cryopreservation).
8. Place the vials in a controlled rate freezing unit. From room temperature cool at -1°C/min to -40°C. At -40°C, plunge ampules into liquid nitrogen. Alternatively, place the vials in a Nalgene 1°C freezing apparatus. Place the apparatus at -80°C for 1.5 to 2 hours and then plunge ampules into liquid nitrogen. (The cooling rate in this apparatus is approximately -1°C/min.).
9. Store ampules in a liquid nitrogen refrigerator until needed.
10. To establish a culture from the frozen state, place a frozen ampule in a 35°C water bath just enough to cover the frozen material. Allow the ampule to thaw completely (2-3 min).
11. Immediately after thawing, aseptically remove the contents and transfer to a T-25 tissue culture flask containing 10 mL of fresh complete ATCC medium 1029.
12. Screw the cap on tightly and incubate at 20-25°C. Observe the culture daily and transfer when numerous trophozoites are observed.




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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

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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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