ATCC

Product Sheet

Euglena gracilis (ATCC® 30285™)

Please read this FIRST

Biosafety Level
1

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: *Euglena gracilis* (ATCC® 30285™)

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: Z etiolated
Deposited Name: *Euglena gracilis* Klebs
Depositor: RG Yaeger
Isolation:
material from Saedeleer, 1950

Propagation

Growth Conditions
Temperature: 25.0°C
Duration: axenic
Protocol: plus 0.1% sodium acetate

Medium
ATCC® Medium 351: Hutner's medium for Euglena

Instructions for Complete Medium
ATCC Medium 351 plus 0.1% sodium acetate

Protocols

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 in a 35°C water bath, until thawed (2-3 min). Immerse the ampule just sufficient to cover the frozen material. Do not agitate the ampule.
2. Immediately after thawing, aseptically transfer contents to a 16 x 125 mm screw-capped borosilicate test tube containing ATCC Medium 351. Incubate the tube upright for one hour.
3. Gently remove as much supernatant as possible **(note: methanol can inhibit growth)** and refill with an equal volume of fresh medium.
4. Incubate on a horizontal slant at 25°C with the cap loosened one half turn.

Culture Maintenance

1. Inoculate a tube of fresh broth medium with 0.1 ml from a growing culture at or near peak density.
2. Incubate at 25° C with the cap loosened one half turn.

Cryopreservation

1. Harvest cells from a culture which is at or near peak density by centrifuging at 100 x g for 1 minute. **Note:** Centrifugation at the lowest speed and the shortest time to allow sedimentation of the cells will maximize recovery.
2. Adjust the concentration of cells to 4 x 10^6/ml with fresh broth medium.
3. Transfer the concentrated cell suspension to a sterile Petri dish and allow the cells to remain undisturbed for at least one hour.
4. Transfer the cell suspension (note the volume) from the Petri plate to a 15 ml plastic centrifuge tube.
5. Add an equal volume of 6% (v/v) sterile reagent grade methanol solution that has been prepared in fresh ATCC medium 351.
6. Dispense in 0.5 ml aliquots into 1.0 - 2.0 ml sterile plastic screw-capped cryules (special plastic vials for cryopreservation). The time from mixing of the cell preparation and the methanol solution, before the cooling cycle begins, should be no greater than 15 min.
7. Place vials in a controlled rate freezing unit. From room temperature cool at -1°C/min to -40°C. If freezing unit can compensate for the heat of fusion, maintain rate at -1 C/min through heat of fusion. 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.)
8. The frozen preparations should be stored in either the vapor or liquid phase of a nitrogen refrigerator. Frozen preparations stored below -130°C are stabile indefinitely. Those stored at temperatures above -130°C

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are progressively less stabile as the storage temperature is elevated. Vials can be stored between -80 and -70°C for no longer than one week.

9. To establish a culture from the frozen state follow steps 1-4 listed above under the heading **ESTABLISHING A CULTURE FROM A FROZEN AMPULE.**

References

References and other information relating to this product are available online at 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.

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

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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