



# ***Euglena gracilis* Klebs**

**12716™**

## **Description**

**Strain designation:** Z

**Deposited As:** *Euglena gracilis* Klebs

**Type strain:** No

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## **Storage Conditions**

**Product format:** Frozen

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## **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.

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## **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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## Growth Conditions

### Medium:

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

**Instructions for complete medium:** ATCC Medium 351

**Temperature:** 25°C

**Culture system:** Axenic

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## Handling Procedures

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, aseptically add 0.5 ml fresh ATCC medium 351 broth to

the frozen pellet, then place the ampule in a 35°C water bath until thawed (2-3 min). Immerse the ampule just sufficiently to cover the frozen material. Do not agitate the ampule.

2. Immediately after thawing, aseptically transfer the entire contents to a single 16 x 125 mm screw-capped test tube containing 5 ml of ATCC medium 351 broth.

Incubate the tube upright for one hour at 25°C.

3. Gently remove as much supernatant as possible (the methanol cryoprotectant can inhibit growth) and refill with an equal volume of fresh broth medium.

4. Incubate on a horizontal slant at 50-100  $\mu\text{Einsteins}/\text{m}^2/\text{s}$  irradiance at 25°C with the cap loosened one half turn. Maintain under a 14/10 h light-dark photoperiod.

**Culture maintenance:**

1. Inoculate a tube of fresh broth medium with 0.2 ml from a growing culture at or near peak density.

2. Incubate on a horizontal slant at 50-100  $\mu\text{Einsteins}/\text{m}^2/\text{s}$  irradiance at 25°C with the cap loosened one half turn. Maintain under a 14/10 h light-dark photoperiod.

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**Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Euglena gracilis* Klebs (ATCC 12716)

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**References**

References and other information relating to this material are available at [www.atcc.org](http://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](mailto:tech@atcc.org) or contact your local distributor