



Product Sheet

Dechloromonas aromatica (ATCC® BAA-1848™)

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
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: *Dechloromonas aromatica* (ATCC® BAA-1848™)

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: RCB

Propagation

Medium

ATCC® Medium 2727: Freshwater Perchlorate Medium

Growth Conditions

Temperature: 30°C

Atmosphere: Anaerobic gas mixture; 80% N₂-20% CO₂

Propagation Procedure

1. Immediately prior to working with the culture place the frozen vial at room temperature to thaw.
2. Add substrates to the medium. If the medium is more than a week old, exchange the head space for 80% N₂-20% CO₂.
3. Using a syringe, aseptically transfer the entire contents of the vial into a single tube (8 to 10 ml) of #2727 broth. Mix well.
4. Use several drops of the suspension to inoculate a blood agar plate. Additional tubes of #2727 broth can be inoculated by transferring 0.5 ml of the original broth.
5. Incubate the tubes and plate at 30°C for 48 to 72 hours. Within this time frame, the culture should become very turbid.

ANAEROBIC CONDITIONS:

- A. Balch tubes (available from Bellco Glass, Vineland, NJ) are specially designed for anaerobic work and use an aluminum crimp cap to hold a rubber stopper in place. Needles can easily be inserted through the stopper. Alternatively, screw cap tubes with butyl rubber stoppers can be used. In the latter case, the stopper may be removed and the tube placed under a cannula system that dispenses sterile, oxygen-free gas for addition of reducing agents or inoculation.
- B. Resazurin is a commonly used redox indicator that is pink when the redox potential is above -50 mv, and colorless when the redox potential is below -110 mv (i.e. highly reducing). Most strict anaerobes require this low redox potential for optimum growth.
- C. To obtain a fully reduced medium, the medium must be anoxic and a reducing agent must be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, titanium citrate and Co-enzyme M (mercaptoethanesulfonic acid). For this culture, Co-enzyme M or Cysteine is the agent of choice.
- D. Syringes can be made anaerobic by one of two methods.
 1. Displace the dead space in the syringe with a sterile oxygen-free gas.
 2. Displace the dead space in the syringe with a reducing agent.

Notes

The cells are highly motile rods. The culture needs to be transferred to fresh media every two weeks. If not, the cells will lyse, and the culture will die.

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: 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

ATCC® products are warranted for 30 days from the date of shipment, and this warranty is valid only if the product is stored and handled according to the information included on this product information sheet. If the ATCC® product is a living cell or microorganism, ATCC lists the media formulation that has been found to be effective for this product. While other, unspecified media may also produce satisfactory results, a change in



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media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this product. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

Disclaimers

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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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