



# ***Dechloromonas* sp.**

**BAA-563™**

## **Description**

**Strain designation:** HZ

**Deposited As:** *Dechloromonas* sp.

**Type strain:** No

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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 2397: *Dechloromonas* Medium

**Temperature:** 26°C**Atmosphere:** Facultative anaerobe

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## Handling Procedures

1. Sterilize the top of the Balch tube by spraying it with 70% ethanol and then flaming the top.
2. If needed, complete a gas exchange using 80% H<sub>2</sub> 20% CO<sub>2</sub>. Add substrates before inoculation.
3. Open the freeze-dried vial according to the enclosed instructions. Take an anaerobic (*anaerobic conditions C below*) 1.0 ml syringe tipped with 22-gauge needle and withdraw 0.5 ml of medium from the Balch tube and rehydrate the freeze dried pellet anaerobically.
4. Using the same syringe, withdraw the cell suspension from the vial and transfer it to the Balch tube. Inoculate a second pre-reduced tube of medium with 0.5 ml of the rehydrated culture. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate anaerobically at 26°C.

5. Growth should be detected in the broth within 1 week. Culture also grows aerobically on trypticase soy agar (ATCC® #18 medium).

**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, and the tubes can be pressurized to 2 atm. Alternatively, serum vials may be used, or screw cap tubes with butyl rubber stoppers, 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. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. Common reducing agents are sodium sulfide, cysteine, dithiothreitol, and titanium citrate.

C. Syringes can be made anaerobic by one of two methods.

1. Displace the dead space in the syringe with a sterile
2. Displace the dead space in the syringe with a  
reducing agent.

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**Notes**

Once growth has been established, the culture should be transferred every 5 to 6 days. Cells appear as curved rods that occur singly and in pairs.

Colony morphology on #18 agar are convex, fried egg appearance with a light yellow center and clear edges, slightly rough, irregular or circular colonies.

Additional information on this culture is available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

Resolution 1000X:

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Dechloromonas* sp. (ATCC BAA-563)

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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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## ***Dechloromonas sp.***

**BAA-563**

Product Sheet

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