



Product Sheet

# *Caldicellulosiruptor obsidiansis* (ATCC® BAA- 2073™)

Please read this **FIRST**



## 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: *Caldicellulosiruptor obsidiansis* (ATCC® BAA-2073™)

## Description

Designation: OB47

## Propagation

### Medium

ATCC® Medium 1698: Clostridium aldrichii medium

### Growth Conditions

**Temperature:** 70-78°C

**Atmosphere:** Anaerobic; 100% N<sub>2</sub> or 80% N<sub>2</sub>-20% CO<sub>2</sub>

### Propagation Procedure

1. Sterilize the top of the Balch tube (see A) by spraying it with 70% ethanol and then flaming the top.
2. Exchange the gas in the test tube for 80% N<sub>2</sub> 20% CO<sub>2</sub>; do not over pressurize.
3. Prepare tubes for inoculation: If there is any question about the medium being anaerobic (see B), add 0.1 ml of reducing agent (3% Cysteine stock solution; see C) to each tube. Let the medium sit at room temperature for at least 2 hours before inoculating.
4. Immediately prior to working with the culture, open the FD vial according to the enclosed instructions. Using an anaerobic 1.0 ml syringe with a 22-gauge needle (see D.) withdraw 0.5 ml of the reduced #1698 medium from the primary tube. As you add the reduced medium to the freeze dried pellet place the vial under a gentle stream of anaerobic gas. Use the entire re-hydrated pellet to inoculate the primary broth. Transfer 0.5 ml of the inoculated culture to a second tube of anaerobic #1698 broth. Plate 0.1 ml of the inoculated culture onto a non-selective medium and incubate the plate aerobically at 37°C. Incubate culture tubes at 70-78°C.
5. Alternatively, work with the FD vial in an anaerobic chamber.
6. Growth should be detected in the broth within 24 hours. No growth should be detected on the aerobic plate.

## Notes

No growth was detected on aerobic plates. Cells are gram positive rods. This organism is very sensitive to oxygen, so the medium must be reduced prior to inoculation. Do not store for more than one week at 4°C.

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

## References

References and other information relating to this product are available online at [www.atcc.org](http://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.

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## Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans. While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet,

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***Caldicellulosiruptor  
obsidiansis* (ATCC® BAA-  
2073™)**

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