



Product Sheet

# *Caldanaerovirga acetigignens* (ATCC® BAA-1454™)

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: *Caldanaerovirga acetigignens* (ATCC® BAA-1454™)

## Description

Designation: JW/SA-NV4 [DSM 18802]

## Propagation

### Medium

ATCC® Medium 2712: *Caldanaerovirga acetigignens* Medium

### Growth Conditions

**Temperature:** 70.0°C

**Atmosphere:** Anaerobic

### Propagation Procedure

1. Sterilize the top of the Balch tube 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 pressurize over 5–10 psi. If the tubes are over pressurized inoculating the tubes will prove difficult.
3. Prepare tubes for inoculation: If the medium has been sitting around for more than a two weeks add 0.1 ml of reducing agent (1.5% Na<sub>2</sub>S 9H<sub>2</sub>O stock solution) per 10 ml of medium. Let the medium sit at room temperature for at least 1 hour before inoculating.
4. Thaw the frozen vial under a gentle stream of anaerobic gas. Using an anaerobic (see D) 1.0 ml syringe tipped with 22-gauge needle, withdraw the cell suspension from the vial and transfer to the 1° tube of ATCC® #2712 medium. Transfer 0.5 ml of the inoculated culture to one or more (2°) second tube of ATCC® medium #2712. 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°C.
5. Growth should be detected in the broth within 24–48 hours. No growth should be detected on the aerobic plate.

### 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, titanium citrate and Co-enzyme M (see D).
- C. We suggest adding the reducing agent to the medium at least one hour before the medium is to be inoculated. Co-enzyme M (mercaptoethanesulfonic acid) (100 X solution): *Dissolve 5.0 g in 100 ml of deionized water. Distribute into screw cap test tubes, 56 ml per tube and seal with rubber stoppers under N<sub>2</sub> gas. Autoclave to sterilize. Excess tubes can be stored at room temperature for up to 2 months.*
- D. Syringes can be made anaerobic by one of two methods.

## Notes

Depositor has confirmed (personal communication) that GenBank sequence EF530069 is the correct sequence for ATCC® BAA-1454™ strain JW/SA-NV4.

Always use freshly prepared anaerobic medium. If there is any question about the anaerobic condition of the medium, then it can be reduced with the addition of 5.0% Co-enzyme M (2.0 ml per 100 ml of medium).

## 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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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 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.

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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](http://www.atcc.org)

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

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Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

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Fax: 703.365.2750  
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