



# *Oscillospiraceae* sp.

49949™

## Description

*Oscillospiraceae* sp. is a whole-genome sequenced bacterium that was isolated from the large intestine of a pig. This strain is cited to degrade cellulose.

**Strain designation:** C52 [C-5-2]

**Deposited As:** *Ruminococcus flavefaciens* Sijpesteijn

**Type strain:** No

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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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 0158: RGCA

ATCC Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

**Temperature:** 37°C

**Atmosphere:** Anaerobic; 97% CO<sub>2</sub>, 3% H<sub>2</sub>

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## Handling Procedures

1. Open vial.
2. Under anaerobic conditions aseptically rehydrate the entire pellet with approximately 0.5 mL of #158 broth. Aseptically transfer the entire contents to a 5-6 mL tube of #158 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary broth tubes.

Best practice dictates the use of pre-reduced media.

3. Use several drops of the primary broth tube to inoculate a #260 plate and/or agar slant.
4. Incubate in an anaerobic atmosphere at 37°C for 24-48 hours. Incubate one agar plate aerobically at 37°C to check for contamination.

#### ANAEROBIC CONDITIONS:

Anaerobic conditions for transfer may be obtained by the use of an anaerobic gas chamber or placement of test tubes under a gassing cannula system connected to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:

- Loose screw caps on test tubes in an anaerobic chamber
- Loose screw caps on test tubes in an activated anaerobic gas pack jar
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained

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## Notes

This strain does not grow on agar.

Always use freshly prepared pre-reduced media or pre-reduced media that has been stored under anaerobic conditions.

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 growth, i.e. will not grow if resazurin is pink.

Pre-reduce syringes to be used for culture transfer by flushing the syringe with oxygen-free gas or by flushing with a reducing agent just prior to use.

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

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Oscillospiraceae* sp. (ATCC 49949)

## 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

***Oscillospiraceae* sp.**

49949

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

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