



# **Ruminococcus callidus** Holdeman and Moore

**27760<sup>TM</sup>**

## Description

*Ruminococcus callidus* strain VPI S7-31 is a bacterial type strain that was isolated from human feces. This strain is propagated anaerobically and grows best when meat particles are left in the broth and sterile rumen fluid is added at the time of inoculation

**Strain designation:** VPI S7-31

**Deposited As:** *Ruminococcus callidus* Holdeman and Moore

**Type strain:** Yes

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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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

**Ruminococcus callidus Holdeman and Moore**

27760

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:**

Anaerobe Systems Brucella Blood Agar Plates (BRU) (AS-111 or AS-141)

ATCC Medium 1016: Chopped meat carbohydrate medium (ATCC Medium 593) with rumen fluid

**Temperature:** 37°C

**Atmosphere:** Anaerobic

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### Handling Procedures

**Ruminococcus callidus Holdeman and Moore**

27760

1. Keep vial frozen until ready to use.
2. For optimal growth, do not filter out the meat particles when preparing the #1016 broth.
3. To reduce media before inoculation, use 3.0% Cysteine then gas out vessel.
4. Add 10% by volume of sterile rumen fluid (0.5 mL per 5 mL broth) before inoculation.
5. Under anaerobic conditions, preferably in an anaerobe chamber, thaw vial and then quickly transfer entire contents into a single tube of #1016 broth. A second tube of #1016 broth can also be inoculated with 0.2 mL from the original broth.
6. Incubate at 37°C. Initial growth may be observed at 48 hours. Subsequent transfers in broth, may grow faster.
7. Add 0.1 to 0.2 mL sterile rumen fluid to each Brucella blood plate prior to inoculation. Growth on agar may take up to 72 hours. It may be necessary to inoculate plates from a growing broth culture.

**ANAEROBIC CONDITIONS:**

1. 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, ie, highly reducing. Most strict anaerobes require this low redox potential for optimum growth.
2. To obtain a fully reduced medium, it is necessary that the medium be anoxic and that a reducing agent be added. There are several common reducing agents, however, 3.0% cysteine is recommended for this strain. Add 0.1 to 0.2 mL of reducing agent for each tube of medium.
3. Syringes can be made anaerobic by one of two methods.
  - a. Displace the dead space in the syringe with a sterile oxygen-free gas.
  - b. Displace the dead space in the syringe with a reducing agent.

**Notes**

Optimal growth is achieved by leaving meat particles in the broth and adding sterile rumen fluid at the time of inoculation.

Anaerobe Systems Brucella Blood Plates (AS-111 or AS-141) are recommended for

**Ruminococcus callidus Holdeman and Moore**

27760

growth and colony morphology.

Growth may have to be established in broth prior to transferring to agar.

Additional information on this culture is available on the ATCC® web site 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: *Ruminococcus callidus* Holdeman and Moore (ATCC 27760)

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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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**Ruminococcus callidus Holdeman and Moore**

27760

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***Ruminococcus callidus* Holdeman and Moore**  
27760

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## Contact Information

ATCC  
10801 University Boulevard  
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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