



Product Sheet

# *Bacillus subtilis subsp. spizizenii* (ATCC® CRM-6633™)

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.

Certified Reference Material produced under an [ISO Guide 34:2009](#) accredited process.



## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Bacillus subtilis subsp. spizizenii* (ATCC® CRM-6633™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Designation:** NRS 231

**Deposited Name:** *Bacillus subtilis* (Ehrenberg) Cohn

## Propagation

### Medium

ATCC® Medium 3: Nutrient agar or nutrient broth

### Growth Conditions

**Temperature:** 30°C

**Atmosphere:** Aerobic

### Propagation Procedure

1. Open vial according to enclosed instructions.
2. From a single tube of #3 broth (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a Pasteur or 1.0 mL pipette. Rehydrate the entire pellet.
3. Aseptically transfer this aliquot back into the broth tube. Mix well.
4. Use several drops of the suspension to inoculate a second tube of broth, a slant, and/or a plate.
5. Incubate all tubes and plates at 30°C for 24 hours.

## Notes

Certificates of Analysis are available electronically at [www.atcc.org](http://www.atcc.org), or by hardcopy upon request. Growth is poor in statically incubated broth, forming a thin pellicle leaving the broth clear. The colonial morphology of this strain varies considerably depending on the temperature of incubation, medium used, and length of time incubated. Colonies on Nutrient Agar may be dull and dry to shiny, irregularly-shaped, opaque, flat, erose, and irregular. As they age they appear to spread and become more uniform. Some colonies are adherent making them difficult to remove from the agar surface. On Tryptic Soy Agar the colonies are creamy, raised, erose, and mildly adherent with a soft sheen.

Additional information on this culture is available on the ATCC website 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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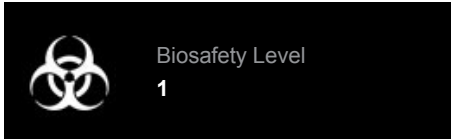


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Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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