**Designation:** NRS 231  
**Deposited Name:** Bacillus subtilis (Ehrenberg) Cohn  
**Product Description:** This item is used in sterility testing and assay of rifampin [rifampicin, rifamycin AMP], neomycin, monensin, kanamycin, lasalocid [X-637A], mitomycin [mitomycin C], vancomycin, novobiocin, penicillin, framycetin, tobramycin, spiramycin, gentamicins [gentamicin], amoxicillin, bekamycin [kanamycin B; aminodeoxykanamycin], hygromycin B, streptomycin, erythromycin, dactinomycin [actinomycin; actinomycin D], streptonigrin, lactam antibiotics [beta-lactam antibiotics], capreomycin sulfate [capreomycin], and dihydrostreptomycin sulfate [dihydrostreptomycin]. Susceptibility disc testing of rifampin [rifampicin; rifamycin AMP] and novobiocin. Produces restriction endonuclease Bsu6633I and subtilin.

**Medium**  
ATCC® Medium 44: Brain Heart Infusion Agar/Broth

**Growth Conditions**  
**Temperature:** 30°C  
**Atmosphere:** Aerobic

**Propagation Procedure**
1. Open vial according to enclosed instructions.  
2. Using a single tube of #44 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 #44 agar slant and/or plate.  
5. Incubate the tubes and plate at 30°C for 24 hours.

**Notes**
Additional information on this culture is available on the ATCC® web site at www.atcc.org.

**References**
References and other information relating to this product are available online at 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.

**ATCC Warranty**
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**Disclaimers**
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Product Sheet

_Bacillus subtilis subsp. spizizenii_ (ATCC® 6633™)

Please read this FIRST

Storage Temp.
- Frozen: -80°C or colder
- Freeze-Dried: 2°C to 8°C
- Live Culture: See Propagation Section

Biosafety Level
1

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: _Bacillus subtilis subsp. spizizenii_ (ATCC® 6633™)