# Product Information Sheet for NR-681

## *Bacillus circulans*, Strain Ford 26

## Catalog No. NR-681
(Derived from ATCC® 4513™)

## For research only. Not for human use.

### Contributor:
ATCC®

### Product Description:
Bacteria Classification: *Bacillaceae, Bacillus*
Species: *Bacillus circulans*
Type Strain: Ford 26 (DSM 11, NCTC 2610, NRS 726)

*Bacillus circulans* (*B. circulans*) is a rod-shaped, heat resistant bacterium that is ubiquitous in soil. It has been incriminated in human infections including septicemia, mixed abscess infections, and wound infections. *B. circulans* is commonly utilized as a biological indicator for use in validating and routinely monitoring oxidizing gas sterilizations.

### Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in 0.5X Tryptic Soy Broth supplemented with 10% glycerol.

Note: If homogeneity is required for your intended use, please purify prior to initiating work.

### Packaging/Storage:
NR-681 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

### Growth Conditions:
Media:
Tryptic Soy Broth or equivalent
Tryptic Soy Agar or equivalent
Incubation:
Temperature: 30°C
Atmosphere: Aerobic
Propagation:
1. Keep vial frozen until ready for use; then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the slant and/or plate at 30°C for 24 hours.

### Citation:
Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: *Bacillus circulans*, Strain Ford 26, NR-681."

### Biosafety Level: 1
Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2007; see www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm

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### References:

1. Smith, N. R., et al. "Type Cultures and Proposed Neotype Cultures of Some Species in the Genus *Bacillus*." J. Gen. Microbiol. 34 (1964): 269-272. PubMed: 14135533.
2. Ligozzi, M., G. Lo Cascio, and R. Fontana. "*van*A Gene Cluster in a Vancomycin-Resistant Clinical Isolate of



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*Bacillus circulans*." Antimicrob. Agents Chemother. 42 (1998): 2055-2059. PubMed: 9687406.

3. Hazem, A. and A. Manar. "Genetic Polymorphisms by RAPD-PCR and Phenotypic Characteristics of Isolated Thermotolerant Bacillus Strains from Hot Spring Sources." New Microbiol. 26 (2003): 249-256. PubMed: 12901420.



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