# Product Information Sheet for NR-701

## *Burkholderia cenocepacia*, Strain LMG 16656

## Catalog No. NR-701

(Derived from ATCC® BAA-245™)

## For research only. Not for human use.

### Contributor:

ATCC®

### Manufactuer:

BEI Resources

### Product Description:

Bacteria Classification: *Burkholderiaceae, Burkholderia*
Species: *Burkholderia cenocepacia* (formerly *Burkholderia cepacia* genomovar III, as indicated on the label)
Strain: Type strain, LMG 16656 (J2315, NCTC 13227, CCM 4899, CF5610)
Original Source: *Burkholderia cenocepacia (B. cenocepacia)*, strain LMG 16656 was isolated in 1989 in Edinburgh, United Kingdom, from the sputum of a cystic fibrosis patient.[1]
Comment: *B. cenocepacia*, strain LMG 16656, was deposited at the ATCC® in 2001 by Dr. D. Janssens from BCCM/LMG Bacteria Collection, Ghent University, K. L. Ledeganckstraat 35, B-9000 Ghent, Belgium. The *Burkholderia cenocepacia,* strain LMG 16656 genome is available from the Sanger Institute (http://www.sanger.ac.uk/Projects/B_cenocepacia/).[2]

*B. cenocepacia* is a Gram-negative bacterium that is found ubiquitously throughout the environment. It was known historically as a plant pathogen but has also emerged as an opportunistic pathogen that preferentially attacks the lungs of those with cystic fibrosis.[1] Virulence factors include cable pilus that is involved in adhesion and colonization of the respiratory tract and a haemolysin that induces cell death.[2] This organism also produces a variety of cytotoxins and antibiotic resistance genes.[3]

### Material Provided:

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

### Packaging/Storage:

NR-701 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 tube, slant and/or plate at 30°C for 24 to 48 hours.

### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Burkholderia cenocepacia,* Strain LMG 16656, NR-701."

### Biosafety Level: 2

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, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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### References:

1. Vandamme, P., et al. "*Burkholderia cenocepacia* sp. nov.- a New Twist to an Old Story." Res. Microbiol. 154 (2003): 91-96. PubMed: 12648723.
2. Miller, D. A. and E. Mahenthiralingam. "Sequencing of the *Pseudomonas aeruginosa* and *Burkholderia cepacia* Genomes and their Applications in Relation to Cystic Fibrosis." J. R. Soc. Med. 96 Suppl 43 (2003): 57-65. PubMed: 12906327.
3. Lipuma, J. J. "Update of the *Burkholderia cepacia* Complex." Curr. Opin. Pulm. Med. 11 (2005): 528-533. PubMed: 16217180.

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