

***Arthrobacter albus*, Strain DNF00011**

**Catalog No. HM-1152**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Bacteria Classification: *Micrococcaceae*, *Arthrobacter*

Species: *Arthrobacter albus*

Strain: DNF00011

Original Source: *Arthrobacter albus* (*A. albus*), strain DNF00011 was isolated on April 25, 2011, from vaginal fluid collected from a woman that tested positive for bacterial vaginosis in the United States.<sup>1,2</sup>

Comments: *A. albus*, strain DNF00011 ([HMP ID 2128](#)) is a reference genome for [The Human Microbiome Project](#) (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *A. albus*, strain DNF00011 was sequenced at the [J. Craig Venter Institute](#) (GenBank: [JRNH00000000](#)).

Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

*A. albus* is generally an obligately aerobic, non-motile, non-sporulating, Gram-positive coccus-to-rod-shaped bacterium found in human clinical samples.<sup>3</sup> Gram-staining variability is characteristic of the genus *Arthrobacter* during growth and these variations are often accompanied by changes in cell shape.<sup>4,5</sup>

**Material Provided:**

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

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

**Packaging/Storage:**

HM-1152 was packaged aseptically in 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 with 5% defibrinated sheep blood or equivalent

Incubation:

Temperature: 37°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 37°C for 24 to 48 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Arthrobacter albus*, Strain DNF00011, HM-1152."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Fredricks, D. N., Personal Communication.
2. GenBank: [KF280283](#)
3. Wauters, G., et al. "Identification of *Arthrobacter oxydans*, *Arthrobacter luteolus* sp. nov., and *Arthrobacter albus* sp. nov., Isolated from Human Clinical Specimens." *J. Clin. Microbiol.* 38 (2000): 2412-2415. PubMed: 10835019.
4. Ward, C. M., Jr. and G. W. Claus. "Gram Characteristics and Wall Ultrastructure of *Arthrobacter crystallopoietes* during Coccus-Rod Morphogenesis." *J. Bacteriol.* 114 (1973): 378-389. PubMed: 4121451.
5. Lucas, D. S. and J. B. Clark. "Induction of Morphogenesis in the Genus *Arthrobacter*." *J. Bacteriol.* 124 (1975): 1034-1036. PubMed: 1184572.

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