

Product Information Sheet for NR-51493

Elizabethkingia occulta, Strain G4070

Catalog No. NR-51493

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For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Bacteria Classification: *Flavobacteriaceae*; *Chryseobacterium*

Species: *Elizabethkingia occulta*

Strain: G4070

Original Source: *Elizabethkingia occulta* (*E. occulta*), strain G4070 was isolated in 1977 from the sputum of a human in Melbourne Australia.¹

Comments: *E. occulta*, strain G4070 was deposited to BEI Resources as the type strain of the species.^{1,2} The complete genome of *E. occulta*, strain G4070 has been sequenced (GenBank: [MAHX000000000](https://www.ncbi.nlm.nih.gov/nuccore/MAHX000000000)).^{1,2}

Elizabethkingia are multi-drug resistant, Gram-negative, aerobic, non-motile, non-spore-forming bacilli which are found in natural environments such as water and soil.^{2,3} *Elizabethkingia* bacteremia are opportunistic pathogens that are difficult to treat due to a large number of antibiotic resistance.³

Material Provided:

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

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

Packaging/Storage:

NR-51493 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:

Nutrient broth or Tryptic Soy broth or equivalent
Nutrient agar or Tryptic Soy agar with 5% defibrinated sheep blood or Heart Infusion agar with 5% defibrinated rabbit blood or equivalent

Incubation:

Temperature: 25°C to 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 1 to 2 days.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Elizabethkingia occulta*, Strain G4070, NR-51493."

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*, 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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References:

1. Nicholson, A. C., Personal Communication.
2. Nicholson, A. C., et al. "Revisiting the Taxonomy of the Genus *Elizabethkingia* Using Whole-Genome Sequencing, Optical Mapping, and MALDI-TOF, Along with Proposal of Three Novel *Elizabethkingia* Species: *Elizabethkingia occulta* sp. nov., *Elizabethkingia ursingii* sp. nov., and *Elizabethkingia occulta* sp. nov." Antonie Van Leeuwenhoek 111 (2018): 55-72. PubMed: 28856455.
3. Lin, J. -N., et al. "*Elizabethkingia* Infections in Humans from Genomics to Clinics." Microorganisms 7 (2019): 295. PubMed: 31466280.

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