

***Yersinia pestis*, Strain NCTC 5923**

**Catalog No. NR-18**

(Derived from ATCC® 19428™)

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

**Contributor:**

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**Product Description:**

Bacteria Classification: *Enterobacteriaceae*, *Yersinia*

Agent: *Yersinia pestis*

Strain: Type Strain, NCTC 5923

Comments: *Yersinia pestis*, strain NCTC 5923 is considered avirulent.

*Yersinia pestis* (*Y. pestis*) is an aerobic, non-spore-forming, Gram-negative, rod-shaped bacterium. It is the etiologic agent of bubonic, septicemic and pneumonic plague. Rodents are the main reservoir, but humans and other animals can also serve as hosts.

**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-18 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:

Brain Heart Infusion Broth, Tryptic Soy Broth or equivalent Tryptic Soy Agar or Sheep Blood Agar

Incubation:

Temperature: 28°C or 37°C

Atmosphere: Aerobic with 5% CO<sub>2</sub>

Propagation:

1. Keep vial frozen until ready for use; thaw slowly.
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 tubes and plate at 28°C or 37°C for 24 to 48 hours.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and

Emerging Infections Research Resources Repository, NIAID, NIH: *Yersinia pestis*, Strain NCTC 5923, NR-18."

**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, 2007; see [www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.htm).

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**References:**

1. Schutze, H. Br. J. Exp. Pathol. 20 (1939): 235.

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