Yersinia pseudotuberculosis, Strain P62

Catalog No. NR-804
( Derived from ATCC® 29910™)

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Contributor:
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Product Description:
Bacteria Classification: Enterobacteriaceae, Yersinia
Species: Yersinia pseudotuberculosis
Serogroup: II
Strain: P62
Original Source: Human clinical isolate obtained in 1952
Comments: Yersinia pseudotuberculosis, strain P62 was deposited at ATCC® in 1978 by Dr. Don J. Brenner, Chief, Enteric Section, Enterobacteriology Branch, Center for Disease Control, Atlanta, Georgia.

The Yersinia genus consists of eleven species, and of these, three are known to be human pathogens: Y. pestis, Y. pseudotuberculosis, and Y. enterocolitica. Y. pseudotuberculosis and Y. enterocolitica share a high degree of similarity with Y. pestis at the genomic level, but cause self-limiting, food-borne, enteric diseases that rarely lead to death. The key virulence factors in Yersinia are carried on a plasmid referred to as pCD1 (also known as pBl1 or pYV) which encodes a type III secretion system and the associated effector proteins, known as Yops (Yersinia outer proteins). The pCD1 plasmid is present in all three pathogenic species of Yersinia and is absolutely necessary for virulence. Y. pseudotuberculosis is a small rod-shaped, Gram-negative bacterium. It is termed pseudotuberculosis since it causes lesions in the lung that are similar to those observed during tuberculosis infection. Y. pseudotuberculosis infections are not frequent, but a mesenteric adenitis that mimics an acute appendicular syndrome is the most common clinical presentation.

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 colony-purify prior to initiating work.

Packaging/Storage:
NR-804 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. Note: The storage temperature indicated on the vial for Lot 4431702 is incorrect. 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
Tryptic Soy Agar
Incubation:
Temperature: 28°C
Atmosphere: Aerobic
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 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: Yersinia pseudotuberculosis, Strain P62, NR-804."

Biosafety Level: 2

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References:

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