Yersinia enterocolitica subsp. enterocolitica, Strain Billups-1803-68

Catalog No. NR-204
(Derived from ATCC® 23715™)

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Contributor:
ATCC®

Product Description:
Bacteria Classification: Enterobacteriaceae, Yersinia
Species: Yersinia enterocolitica subsp. enterocolitica
Biotype: 1
Serotype: O:8
Strain: Billups-1803-68 (FB; NCTC 10598; Ye 636)
Original Source: Isolated in 1968 from the blood of an adult female patient with bacteremia in St. Louis, Missouri
Comments: Yersinia enterocolitica (Y. enterocolitica) subsp. enterocolitica, strain Billups-1803-68 was deposited at ATCC® in 1968 by Alex C. Sonnenwirth, Ph.D., Director, Division of Microbiology, The Jewish Hospital of St. Louis, St. Louis, Missouri.

Y. enterocolitica subsp. enterocolitica is a significant food-borne enteropathogen which causes gastroenteritis. Y. enterocolitica subsp. enterocolitica is an extremely heterogeneous species, encompassing six biotypes and currently more than 50 serogroups, not all of which can cause disease. It is of particular concern to the food industry because it is a psychrotrophic pathogen able to proliferate at temperatures approaching 0°C.

Y. enterocolitica subsp. enterocolitica is a non-spore-forming, Gram-negative, rod-shaped coccobacillus. Virulence-associated genes are located on the chromosome and on the plasmid (pYV (~ 64 to 75 kb) plasmid found in typical virulent strains of Y. enterocolitica subsp. enterocolitica). This plasmid encodes a type III secretion system involved in the delivery of virulence proteins that contribute to internalization into host cells.

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-204 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 or Tryptic Soy Broth
Tryptic Soy Agar or Sheep Blood Agar
Incubation: Temperature: 7°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 26°C for 24–48 hours.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Y. enterocolitica subsp. enterocolitica, Strain Billups-1803-68, NR-204.”

Biosafety Level: 2


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Product Information Sheet for NR-204

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References:

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