

***Yersinia enterocolitica* subsp. *enterocolitica*,
Strain 1375**

Catalog No. NR-209

(Derived from ATCC® 49397™)

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Contributor:

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Product Description:

Bacteria Classification: *Enterobacteriaceae*, *Yersinia*

Agent: *Yersinia enterocolitica* subsp. *enterocolitica*

Strain: Strain 1375

Original Source: Isolated in 1981 from a human clinical specimen

Yersinia enterocolitica subsp. *enterocolitica* (*Y. enterocolitica* subsp. *enterocolitica*) is a food-borne enteropathogen which causes gastroenteritis. It is an extremely heterogeneous species, encompassing six biotypes and currently more than 50 serogroups, not all of which can cause disease.¹ It is of particular concern to the food industry because it is a psychrotrophic pathogen able to proliferate at temperatures approaching 0°C.

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-209 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: 26°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 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 enterocolitica* subsp. *enterocolitica*, Strain 1375, NR-209."

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.

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References:

1. Viridi, J. S. and P. Sachdeva. "Molecular Heterogeneity in *Yersinia enterocolitica* and 'Y. enterocolitica-Like' Species – Implications for Epidemiology, Typing and Taxonomy." FEMS Immunol. Med. Microbiol. 45 (2005): 1–10. PubMed: 15985218.
2. Neubauer, H., et al. "*Yersinia enterocolitica* 16S rRNA Gene Types Belong to the Same Genospecies but Form Three Homology Groups." Int. J. Med. Microbiol. 290

(2000): 61–64. PubMed: 11043982.

3. Snellings, N. J., M. Popok, and L. E. Lindler. "Complete DNA Sequence of *Yersinia enterocolitica* Serotype O:8 Low-Calcium-Response Plasmid Reveals a New Virulence Plasmid-Associated Replicon." Infect. Immun. 69 (2001): 4627–4638. PubMed: 11402007.

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