**Yersinia enterocolitica** subsp. **enterocolitica**, Strain NCTC 11175

**Catalog No. NR-212**
(Derived from ATCC® 700822™)

For research only. Not for use in humans.

**Contributor:**
ATCC®

**Manufacturer:**
BEI Resources

**Product Description:**

**Bacteria Classification:** Enterobacteriaceae, Yersinia

**Species:** Yersinia enterocolitica subsp. enterocolitica

**Strain:** NCTC 11175

**Biotype:** 4

**Serotype:** O:3

**Original Source:** Yersinia enterocolitica (Y. enterocolitica) subsp. enterocolitica, strain NCTC 11175 was isolated in 1970 from the blood of a patient with septicemia.3

**Comments:** Y. enterocolitica subsp. enterocolitica, strain NCTC 11175 was deposited at ATCC® by the National Collection of Type Cultures.

Y. enterocolitica subsp. enterocolitica is a significant food-borne enteropathogen which causes gastroenteritis.4 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.5 It is of particular concern to the food industry because it is a psychrotrophic pathogen able to proliferate at temperatures approaching 0°C.6

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 pYV (approximately 70 kb) plasmid found in typical virulent strains of Y. enterocolitica subsp. enterocolitica.6,7 This plasmid encodes a type III secretion system involved in the delivery of virulence proteins that contribute to internalization into host cells.7

**Material Provided:**
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy Broth supplemented with 10% glycerol.

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

**Packaging/Storage:**
NR-212 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 or equivalent
Tryptic Soy agar or Sheep Blood agar or equivalent

**Incubation:**
Temperature: 26°C8
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 1 to 2 days.

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Yersinia enterocolitica* subsp. *enterocolitica*, Strain NCTC 11175, NR-212."

**Biosafety Level:** 2


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References:

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