

32-13512: Y. Enterocolitica (O:9) YopN

Alternative Name :

Yersinia enterocolitica is a Gram-negative bacillus-shaped bacterium, which is a member of the Enterobacteriaceae family. *Y. Enterocolitica* is motile at temperatures between 22-29°C, however becomes non-motile at normal human body temperature. *Y. Enterocolitica* infection causes the yersiniosis disease, which is an animal-borne disease occurring in humans, as well as in a various groups of animals such as cattle, deer, pigs, and birds. *Yersinia enterocolitica* is a heterogeneous group of strains, which are conventionally classified by bio-typing into six bio-groups on the basis of phenotypic characteristics, and by serotyping into more than 57 "O" serogroups, on the basis of their O (lipopolysaccharide or LPS) surface antigen. Five of the six biogroups (1B and 2-5) are considered as pathogens. Nevertheless, only a few of these serogroups have been linked with disease in either humans or animals. Strains which belong to serogroups O:3 (biogroup 4), O:5,27 (biogroups 2 and 3), O:8 (biogroup 1B), and O:9 (biogroup 2) are most frequently isolated worldwide from human samples. Still, the main *Y. enterocolitica* serogroup in many European countries is serogroup O:3 followed by O:9, whereas the serogroup O:8 is mostly detected in the United States.

Description

Source: *Escherichia Coli*.

Sterile Filtered clear solution.

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Recombinant *Yersinia Enterocolitica* (O:9) YopN produced in *E. coli* is a non-glycosylated, polypeptide chain having a calculated molecular mass of 34,296 Dalton. *Y. Enterocolitica* (O:9) YopN is expressed with a 10xHis tag at N-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	50 µg / 100 µg
Purification :	Greater than 80.0% as determined by SDS-PAGE.
Content :	<i>Y. Enterocolitica</i> (O:9) YopN is supplied in 20mM HEPES buffer pH-7.6, 250mM NaCl and 20% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.