Campylobacter jejuni subsp. jejuni, Strain TGH 9011

Catalog No. NR-4082
(Derived from ATCC® 43431™)

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Contributor: ATCC®

Manufacturer: BEI Resources

Product Description:
Bacteria Classification: Campylobacteraceae, Campylobacter
Species: Campylobacter jejuni subsp. jejuni
Strain: TGH 9011 (RM1047)
Serotype: O:3, Penner HS:3
Original Source: Campylobacter jejuni (C. jejuni) subsp. jejuni, strain TGH 9011 was isolated by Dr. L. Spence from human feces at Toronto General Hospital in Toronto, Ontario, Canada.
Comment: This strain was deposited to the ATCC® by Dr. J. L. Penner in 1986.1,2 This strain possesses genes that are similar to those encoded by the pathogenicity island of Helicobacter hepaticus.3

C. jejuni is a Gram-negative slender, curved, motile rod commonly found in animal feces. It is a microaerophilic organism that is very sensitive to environmental stresses.4 C. jejuni is among the most frequently identified bacterial causes of human gastroenteritis in the United States and other industrialized countries.5 Food poisoning caused by C. jejuni can be largely attributed to the consumption of contaminated food animal products, especially poultry. In most cases, the resulting infection can be severely debilitating but is rarely life-threatening. However, in some cases, C. jejuni infections have been linked to the subsequent development of two neuropathies, Guillain-Barré syndrome4,6,7 and Miller-Fisher syndrome6 and to a reactive arthropathy, Reiter syndrome.4

Material Provided:
Each vial contains approximately 0.5 mL of bacterial culture in Brucella broth supplemented with 10% glycerol.

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

Packaging/Storage:
NR-4082 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:
Brucella broth, Tryptic soy broth or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or Brucella agar or equivalent
Incubation:
Temperature: 37°C to 42°C
Atmosphere: Microaerophilic (3 to 5% O₂ and 4 to 8% CO₂)
Propagation:
1. Keep vial frozen until ready for use, then thaw.
2. Transfer the entire thawed aliquot into a single tube of broth.
3. Use the suspension to inoculate an agar slant and/or plate.
4. Incube the tube, slant and/or plate at 37°C to 42°C for 24 to 48 hours.

Note: The thawed vial may be plated directly on TSA with 5% defibrinated sheep blood and grown at 37°C to 42°C in a microaerophilic atmosphere. This may require a longer incubation time than the biphasic culture.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Campylobacter jejuni subsp. jejuni, Strain TGH 9011, NR-4082.”

Biosafety Level: 2

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References:

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