Campylobacter jejuni, Strain HB95-29

Catalog No. NR-402
(Derived from ATCC® BAA-527™)

For research only. Not for human use.

Contributor:
University of Pennsylvania

Product Description:
Bacteria Classification: Campylobacteraceae, Campylobacter
Species: Campylobacter jejuni
Strain: HB95-29 (RM3146)
Serotype: HS:19

Original Source: Isolated in 1995 from the stool of a patient with Guillain-Barré syndrome exhibiting acute motor axonal neuropathy in Hebei Province, China

Comment: The HB95-29 strain was deposited at ATCC® by Dr. Irving Nachamkin, University of Pennsylvania School of Medicine, Philadelphia. Serotype HS:19 has been associated with Guillain-Barré syndrome.1,2

Campylobacter jejuni (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.3 C. jejuni is among the most frequently identified bacterial causes of human gastroenteritis in the United States and other industrialized countries.4 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 syndrome and Miller-Fisher syndrome5 and to a reactive arthropathy, Reiter syndrome.5-3

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

Packaging/Storage:
NR-402 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 on Tryptic Soy Agar (TSA) with 5% defibrinated sheep blood, or equivalent

Incubation:
Temperature: 37–42°C
Atmosphere: Microaerophilic (3–5% O2 and 4–8% CO2)

Propagation:
1. Keep vial frozen until ready to use, then thaw.
2. Transfer the entire thawed aliquot into Brucella Broth.
3. Inoculate a TSA with 5% defibrinated sheep blood slant with the suspension.
4. Incubate the slant at 37–42°C, under microaerophilic conditions, for 48 hours.
5. Harvest the slant with Brucella Broth and add to TSA with 5% defibrinated sheep blood Kolle.
6. Incubate an additional 24 hours at 37–42°C, under microaerophilic conditions.

Note: The thawed vial may be plated directly on TSA with 5% defibrinated sheep blood and grown at 37–42°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 the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Campylobacter jejuni, Strain HB95-29, NR-402.”

Biosafety Level: 2

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References:

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