Product Information Sheet for HM-296

Campylobacter coli, Strain JV20

Catalog No. HM-296

For research use only. Not for use in humans.

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Manufacturer:
BEI Resources

Product Description:
Bacteria Classification: *Campylobacteraceae*, *Campylobacter*
Species: *Campylobacter coli*
Strain: JV20
Original Source: *Campylobacter coli* (*C. coli*), strain JV20 was isolated from a human gastrointestinal tract.[1,2,3]
Comments: *C. coli*, strain JV20 (HMP ID 9399) is a reference genome for The Human Microbiome Project (HMP). HMP is an initiative to identify and characterize human microbial flora. The complete genome of *C. coli*, strain JV20 was sequenced at the Human Genome Sequencing Center at Baylor College of Medicine (GenBank: AEER00000000).
Note: HMP material is taxonomically classified by the depositor. Quality control of these materials is only performed to demonstrate that the material distributed by BEI Resources is identical to the deposited material.

C. coli is a microaerophilic, Gram-negative, nonsporulating, motile, spiral-shaped rod that usually resides in the gastrointestinal tract of warm-blooded animals and is frequently isolated from healthy pigs.[4] *C. coli* is similar to *Campylobacter jejuni* (*C. jejuni*) at the molecular and clinical level; both cause inflammation of the intestine and cause diarrhea in infected animals and humans.[5,6] Together, these two species account for over 95% of all *Campylobacter* infections in humans. There is accumulating evidence of the clinical and public health consequences of macrolide resistance in *C. coli* and *C. jejuni*.[6,7]

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:
HM-296 was packaged aseptically in 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 or equivalent
Tryptic Soy agar with 5% defibrinated sheep blood or equivalent

Incubation:
Temperature: 37°C
Atmosphere: Microaerophilic or aerobic with 5% CO_2
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 several drops of the suspension to inoculate an agar slant and/or plate.
4. Incubate the tube, slant and/or plate at 37°C for 2 to 3 days.

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH as part of the Human Microbiome Project: *Campylobacter coli*, Strain JV20, HM-296."

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:
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References:

1. Vandamme, P. and S. L. On. "Recommendations of the Subcommittee on the Taxonomy of *Campylobacter* and Related Bacteria." Int. J. Syst. Evol. Microbiol. 51 (2001): 719-721. PubMed: 11321120.
2. Versalovic, J., Personal Communication.
3. HMP ID 9399 (*Campylobacter coli*, strain JV20)
4. Alderton, M. R., et al. "*Campylobacter hyoilei* sp. nov., Associated with Porcine Proliferative Enteritis." Int. J. Syst. Bacteriol. 45 (1995): 61-66. PubMed: 7857809.
5. Tam, C. C., et al. "*Campylobacter coli* - an Important Foodborne Pathogen." J. Infect. 47 (2003): 28-32. PubMed: 12850159.
6. Coker, A. O., et al. "Human Campylobacteriosis in Developing Countries." Emerg. Infect. Dis. 8 (2002): 237-244. PubMed: 11927019.
7. Gibreel, A. and D. E. Taylor. "Macrolide Resistance in *Campylobacter jejuni* and *Campylobacter coli*." J. Antimicrob. Chemother. 58 (2006): 243-255. PubMed: 16735431.

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