



Helicobacter pylori (Marshall et al.) Goodwin et al.

49396™

Description

Strain designation: T81213-NTB [CCUG 45423]

Deposited As: *Helicobacter nemestrinae* Bronsdon et al.

Type strain: Yes; type strain of *Helicobacter nemestrinae*

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 2

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submerged in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submerged in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 1705: Brucella Agar/Broth w/ 5% Defibrinated Sheep Blood

Temperature: 37°C

Atmosphere: Microaerophilic

Handling Procedures

1. Open vial according to enclosed instructions or see www.atcc.org for instructions. Aseptically rehydrate the vial contents using approximately 0.5 mL of #1705 broth.
2. Aseptically transfer the entire suspension into a tube of #1705 broth (5-6 mL). Mix well. This suspension can now be used to inoculate agar slant(s), plate(s), or the preferred biphasic culture. Two #1705 plates should be inoculated, one for microaerophilic growth and the second for aerobic growth. No growth should occur

on the plate incubated aerobically.

3. To obtain a biphasic culture, add 0.6 mL of the suspension to a #1705 slant. The resulting pool at the

bottom of the slant is where the best, most rapid growth will occur.

4. Incubate at 37°C under microaerophilic conditions using an anaerobe jar with an active catalyst and a

microaerophilic gas generator pack, or other acceptable method, to obtain microaerophilic conditions.

Incubate tubes with caps loose.

5. Within 3 days, good growth should be obtained in the broth pool at the bottom of the slant. Additional

incubation may be required for colonies to appear on the agar plate. Further subcultures can be made

using the broth pool as the inoculum source. Subcultures to biphasic cultures will require only 24 to

48 hours of incubation for good growth.

Notes

The genus *Campylobacter* was described by Sebald and Veron in 1963 (Ann. Inst. Pasteur (Paris) 105: 897-910, 1963). Over the next twenty-five years, several species were assigned to that genus, among them *C. fetus*, *C. coli*, *C. jejuni*, *C. sputorum*, *C. hyointestinalis*, *C. butzleri*, *C. lari*, *C. mucosalis* and *C. nitrofigilis*. In the last few years, molecular examination of the strains has resulted in the transfer of some of these species into other genera, namely *Helicobacter* and *Arcobacter* (Int. J. Syst. Bacteriol. 41: 88-103, 1991 and *ibid.*, 39: 397-405, 1989). Two species of *Wolinella*, *W. recta* and *W. curva*, have also been transferred into the genus *Campylobacter* (*ibid.*, 41: 88-103, 1991).

Additional information on this culture can be found on the ATCC® website at www.atcc.org

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Helicobacter pylori* (Marshall et al.) Goodwin et al. (ATCC 49396)

References

References and other information relating to this material are available at www.atcc.org.

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