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

49396™

Description

Helicobacter pylori strain T81213-NTB is a bacterium that was isolated from the gastric mucosa of a pigtailed macaque.

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 submersed 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 submersed 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.
2. Rehydrate the entire pellet with approximately 0.5 mL of #1705 broth.
3. Aseptically transfer the entire contents to a 5-6 mL tube of #1705 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary

broth tube to these secondary broth tubes.

4. Use several drops of the primary broth tube to inoculate a #1705 plate and/or #1705 agar slant.
5. Or, to obtain a biphasic culture, add several drops of the primary broth tube to a #1705 agar slant. Best practice is to incubate these slants at an angle.
6. Incubate at 37°C under microaerophilic conditions for 3-7 days. Use an anaerobe jar with an active catalyst and a microaerophilic gas generator pack or other acceptable method. All tubes and slants should be incubated with caps loosened.

Notes

Growth at the broth/agar interface of the biphasic slant should occur within 3 days, but only light turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy.

Growth on agar takes longer than the biphasic culture. The cells do not Gram stain well using traditional procedures. For best results, use a basic fuchsin counterstain in place of the safranin.

Once good growth in obtained, transfer or freeze the culture. Adding an equal amount of 20% sterile glycerol to pooled broth from several biphasic slants, followed by freezing in liquid nitrogen or “ultra-low temperature” freezer is recommended.

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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Revision

This information on this document was last updated on 2025-02-27

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