Helicobacter mustelae (Fox et al.) Goodwin et al.

43774™

Description

Strain designation: R85-13-11P
Deposited As: *Helicobacter mustelae* (Fox et al.) Goodwin et al.
Type strain: No

Storage Conditions

Product format: Freeze-dried

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 260: Trypticase soy agar/broth with defibrinated sheep blood
Temperature: 37°C
Atmosphere: Microaerophilic

Handling Procedures

1. Open vial according to enclosed instructions. Rehydrate contents of vial with 0.5 ml of Trypticase Soy Broth.

1.

2. To obtain a biphasic culture, add 0.4 ml of the suspension to a #260 slant. Add remaining 0.1 ml of the suspension to a #260 plate and streak for isolation.

2.

3. Incubate at 37°C under microaerophilic conditions using an anaerobe jar with an active catalyst and a C*ampylobacter* microaerophilic gas generator pack, or other acceptable method, to obtain microaerophilic conditions. Incubate slant with cap loose.

4. After 72 hours you should observe small colonies on the surface of the agar plate and slant. There should be heavy growth in the liquid portion of the biphasic slant. Additional incubation may be required, especially on initial culture. Use liquid portion of biphasic culture for transfers.

4.

Notes

This strain grows slowly and requires moist conditions for best growth. Growth at the broth/agar interface of the biphasic slant should occur within 2 to 3 days. To observe growth, examine a wet mount of the broth under phase microscopy. The organism is a medium size, regular to slightly curved motile bacillus.

Growth on the agar plate will take longer than the biphasic culture. Colonies are small, entire, convex, smooth, and gray.

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.

See also *Helicobacter* species, General Procedures in ATCC Bacteria and Bacteriophages, 19th edition, 1996, p.471.

Additional information on this culture is available on the ATCC web site 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 mustelae* (Fox et al.) Goodwin et al. (ATCC 43774)

References

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

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