



Helicobacter mastomyrinus

BAA-1046™

Product Sheet

Description

Type strain

Strain designation: MIT 97-5574

Type strain: Yes

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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: 3-5% O₂, 10% CO₂

Handling Procedures

1. This organism is shipped frozen on dry ice. Just prior to use, thaw vial in water at approximately 37°C. When thawed, a drop of the suspension may be used to do an immediate wet mount to observe the unique morphology of this organism and verify its viability by checking for motility.
2. Aseptically transfer the thawed suspension into a #260 broth tube (5-6 mL). This broth can now be used to inoculate an agar slant(s), plate(s), additional

- broth tube(s), or the preferred biphasic culture.
3. To obtain a biphasic culture, add 0.6 mL of the suspension to a medium #260 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 slant with cap loose.
 5. Within 5 days of incubation, good growth should be obtained in the broth pool at the bottom of the slant. Further subcultures can be made using broth pool as the inoculum source.
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Notes

This organism requires moist conditions for best growth. No growth was observed on agar. Growth at the broth/agar interface of the biphasic slant should occur within 5 days, but little 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. It is essential to use fresh, moist plates.

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 is 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.

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 mastomyrinus* (ATCC BAA-1046)

References

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

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