Helicobacter suncus

BAA-1440™

Description

Strain designation: Kaz-1
Type strain: No

Storage Conditions

Product format: Frozen

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: 3-5% O_2, 10% CO_2

Handling Procedures

1. This organism is shipped frozen on dry ice. Just prior to use, thaw vial in water at approximately 37ºC. 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 entire thawed suspension into a #1705 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 0.4-0.6 ml of the thawed suspension to a #1705

slant. The resulting pool at the bottom of the slant is where the best, most rapid growth will occur. Add 0.1 ml of the suspension to a #1705 plate and streak for isolation.

4. Incubate at 37ºC 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 5-7 days of incubation, 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 plate. Further subcultures can be made using broth pool as the inoculum source.

Notes

This is a slow growing organism that requires moist conditions for best growth. Growth at the broth/agar interface of the biphasic slant should occur within 7 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 with the biphasic culture. Colonies are pinpoint, colorless, and transparent.

The organism is a small, comma-shaped, motile bacillus that is often difficult to see unless in a heavy suspension.

The cells do not Gram stain well using traditional procedures. To obtain the 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 suncus* (ATCC BAA-1440)

References

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

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Contact Information

ATCC
10801 University Boulevard
Manassas, VA 20110-2209
USA
US telephone: 800-638-6597
Worldwide telephone: +1-703-365-2700
Email: tech@atcc.org or contact your local distributor