**Helicobacter pylori** (ATCC® 700392™)

**Description**

**Designation:** 26695 [KE26695]

**Deposited Name:** Helicobacter pylori (Marshall et al.) Goodwin et al.

**Product Description:** Genome sequencing strain.

**Medium**

ATCC® Medium 18: Trypticase Soy Agar/Broth

ATCC® Medium 260: Trypticase soy agar/broth with defibrinated sheep blood

**Growth Conditions**

**Temperature:** 37°C

**Atmosphere:** Microaerophilic, 3-5% O₂-10% CO₂

**Propagation Procedure**

1. This organism is shipped frozen in 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 fresh #18 broth (3-5 mL). Mix well. This suspension can now be used to inoculate agar slant(s), plate(s), or the preferred biphasic culture. Two #260 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 #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 tubes with cap loose.

5. Within 2-3 days, good growth should be obtained in the broth pool at the bottom of the slant and on the microaerophilic 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**

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 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.

Purified genomic DNA of this strain is available as ATCC® 700392D-5™.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

**References**

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

**Biosafety Level:** 2

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the *Biosafety in Microbiological and Biomedical Laboratories* from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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