Product Sheet

Helicobacter pullorum Stanley et al.

51802[™]

Description

Strain designation: CCUG 33838 [6350-92, NCTC 12826] **Deposited As:** *Helicobacter pullorum* Stanley 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



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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. Using a

single tube of #18 broth (5 to 6 ml), withdraw

approximately 0.5 to 1.0 ml with a Pasteur or 1.0 ml

pipette. Rehydrate the entire pellet.

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.

3. 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.

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 three days, but little turbidity will be seen. To observe growth, examine a wet mount of the broth under phase microscopy. The organism is a small, thin, slightly filamentous, curved to spiral, motile bacillus that is often difficult to see unless in a heavy suspension. Motility is usually observed only in young cultures. The presence of spheroid cells indicates that viability is being lost either due to age or too much exposure to oxygen.

Growth on agar takes longer than in the biphasic culture. Colonies appear as a haze to pinpoint in size. More mature colonies will appear slightly larger with some spreading. Once good growth is present, these organisms tend to lose viability, especially if exposed to air for lengthy periods. Viability also decreases with repeated subculturing. The cells do not Gram stain well using traditional procedures. To obtain the best results, use a basic fuchsin counterstain in place of 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 <u>www.atcc.org</u>.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Helicobacter pullorum* Stanley et al. (ATCC 51802)

References

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

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