**Description**

**Designation:** SH1 [DSM 15410, DSM 5431]

**Deposited Name:** Clostridium diolis Biebl and Sproer

**Propagation**

**Medium**

ATCC® Medium 2107: Modified Reinforced Clostridial

**Growth Conditions**

**Temperature:** 30.0°C

**Atmosphere:** Anaerobic

**Propagation Procedure**

1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 ml of the appropriate medium from a single test tube (5 to 6 ml) and rehydrate the entire vial contents.
3. Aseptically transfer this aliquot back into the broth tube. Additional tubes and an anaerobic Tryptic Soy Agar plate may be inoculated with 0.5 ml each from the suspension. Streak onto a blood plate and incubate aerobically to check for purity.
4. Incubate tubes and #18 plate under an anaerobic atmosphere at 30-35°C.

**ANAEROBIC CONDITIONS:**

- Tubes of media are placed under a gassing cannula system hooked to a source of oxygen-free gas.
- All transfers are performed while the test tubes are on the cannula system with a gentle stream of oxygen free gas flowing through the system.
- As the test tubes are removed from the cannula system each is sealed with butyl rubber stopper thus maintaining the anaerobic headspace. A 100% nitrogen or 80% nitrogen-20% carbon dioxide gas mixture is typically employed as the oxygen-free gas source.
- Resazurin is a commonly used redox indicator that is pink when the redox potential is above 50 mv., and colorless when the redox potential is below 110 mv. i.e. highly reducing. Most strict anaerobes require this low redox potential for optimum growth.

**Notes**

In 24-48 hours, growth is evident by turbidity. Colonies on sheep blood agar are raised and spreading, with irregular margins. No growth should occur on agar plates incubated aerobically. Cells are motile rods that occur singly, in pairs and occasionally in clumps.

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: 1**

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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**Disclaimers**

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**Citation of Strain**

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Clostridium diolis* (ATCC® BAA-557™)
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