Designation: 33 [VPI 0409]
Deposited Name: Propionibacterium shermanii van Niel

Medium
ATCC® Medium 1053: Reinforced Clostridial medium (Oxoid CM149)

Growth Conditions
Temperature: 30°C
Atmosphere: Anaerobic

Propagation Procedure
1. Open vial according to enclosed instructions.
2. Under anaerobic conditions, withdraw 0.5 ml of the recommended broth from a single tube (5 to 6 ml) and rehydrate the vial contents.
3. Aseptically transfer this aliquot back into the broth tube. A slant may be inoculated with 0.1 ml of the cell suspension. Also, streak several blood agar plates to check for colonial morphology and purity.
4. Incubate tubes and one blood plate under anaerobic conditions at 30°C. Incubate second agar plate aerobically at 30°C for aerobic contamination check.
5. Within 48 to 72 hours, growth is evident by a slightly turbid broth with smooth sediment. Colonies on the anaerobic blood agar plate are pinpoint, circular, entire, glistening, and transparent. No growth occurs on the blood agar plates incubated aerobically.

ANAEROBIC CONDITIONS:
- Use of an anaerobic gas chamber, or
- Placement of test tubes under a gassing cannula system hooked to anaerobic gas.

Anaerobic conditions for incubation may be obtained by any of the following:
- Loose screw caps on test tubes in anaerobic chamber,
- Loose screw caps on test tubes in an activated anaerobic gas pack jar, or
- Use of sterile butyl rubber stoppers on test tubes so that an anaerobic gas headspace is retained.

Tomato juice broth and Tomato juice agar (ATCC Medium #33, shown below) were historically used in the food industry to propagate this species and may be used if desired. ATCC Medium #44, Brain Heart Infusion (Difco 0037) and Brain Heart Infusion Agar (Difco 0418) may also be used to propagate this strain.

ATCC Culture Medium #33: Tomato Juice Agar
For broth, omit the agar.
Tryptone (Difco 0123), 10.0 g
Yeast extract, 10.0 g
Filtered tomato juice (pH 7.0), 200.0 ml
Agar, 11.0 g
Adjust pH to 7.2.
Autoclave at 121°C for 15 min.

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

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

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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