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Culture of Clinical Specimens for the Isolation of Corynebacterium spp.

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We use this protocol and it's working

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Abstract

This protocol describes the use of fosfomycin disks for isolating *Corynebacterium* spp. from clinical specimens.

Materials

- Columbia agar supplemented with 5% sheep blood
- Fosfomycin disks - 200 µg

Procedure

- 1 Inoculate swabs and/or tissue fragments onto Columbia agar supplemented with 5% sheep blood.
- 2 Place five fosfomycin disks (200 µg each) on each plate, positioning them as shown in Figure 1.

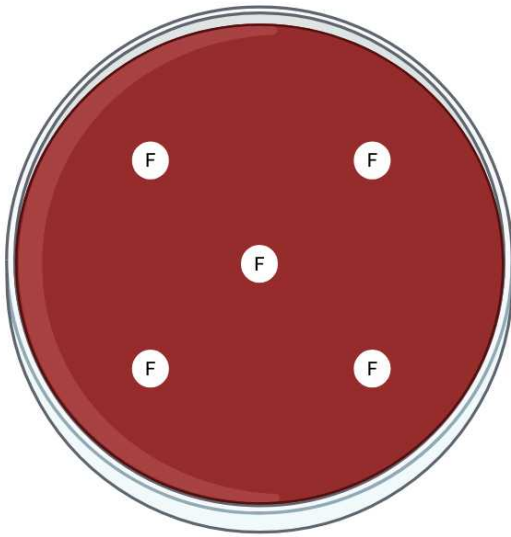


Figure 1. Fosfomycin disk placement for the isolation of *Corynebacteria*.

- 3 Incubate plates for 18–24 h at approximately 35 °C (range 34–38 °C).

Reading

- 4 After incubation, examine the plates. Any colonies growing in proximity of the fosfomycin disks (Figure 2) should be subcultured onto a fresh agar plate and identified—preferably by MALDI-TOF mass spectrometry.

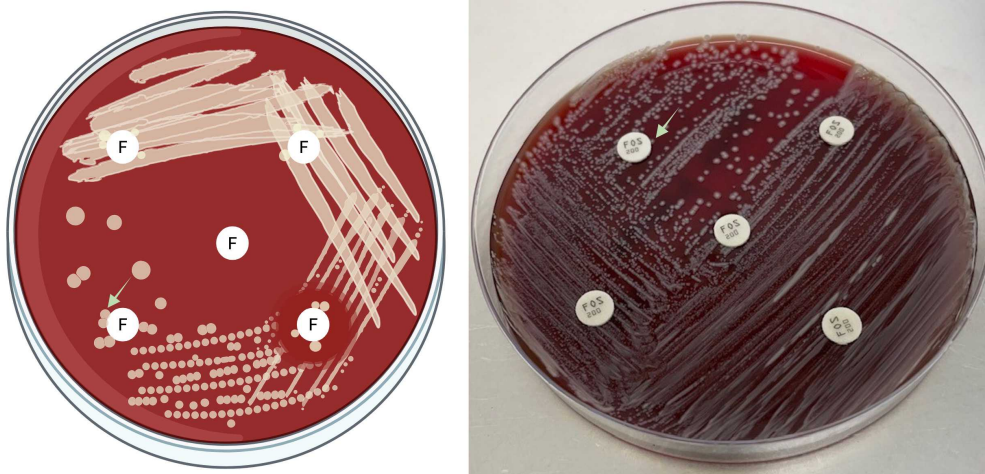


Figure 2. Example of colonies growing close to fosfomycin disks (marked by green arrows), that should be subcultured on fresh agar for identification.