Kirby Bauer GERMS abbreviated protocol

Grace Carey Spring 2023

You will need:

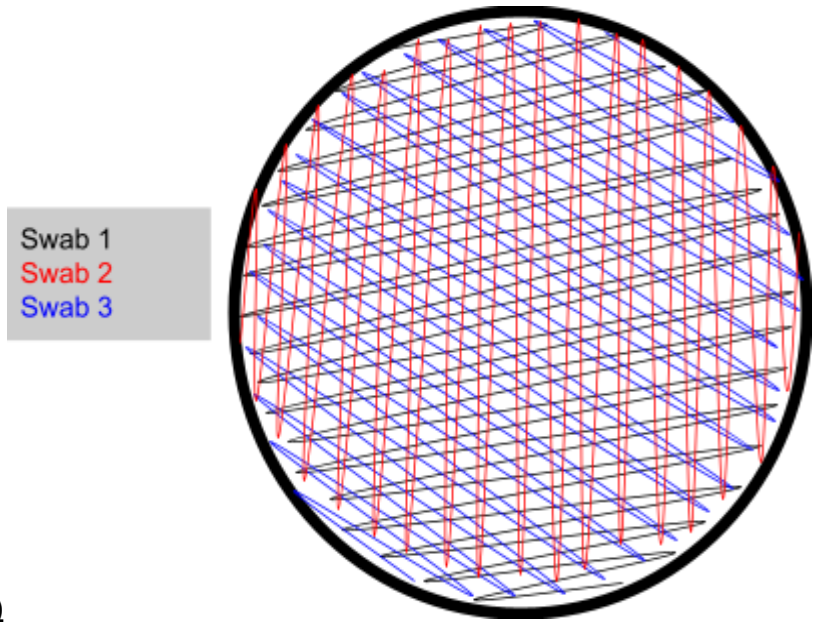
- Incubated samples in R2A broth
- MacFarland Standard
- Sterile PBS
- MH agar plates
- Erythromycin disks
- Sterile swabs
- Sterile tweezers
- Bags or plastic wrap for plate incubation

Procedure:

1. Incubate samples for 24 hours
2. Dilute samples in sterile PBS to match turbidity of MacFarland standard
    a. Test turbidity by holding sample tube and MacFarland standard in front of a solid black object (black sharpie) and visually deterimine if turbidity is comparable
3. Dip sterile swab in diluted sample, gently squeeze out excess by pressing against side of tube
4. Using a sterile cotton swab, swab entire plate once over as shown in diagram below (figure 1).

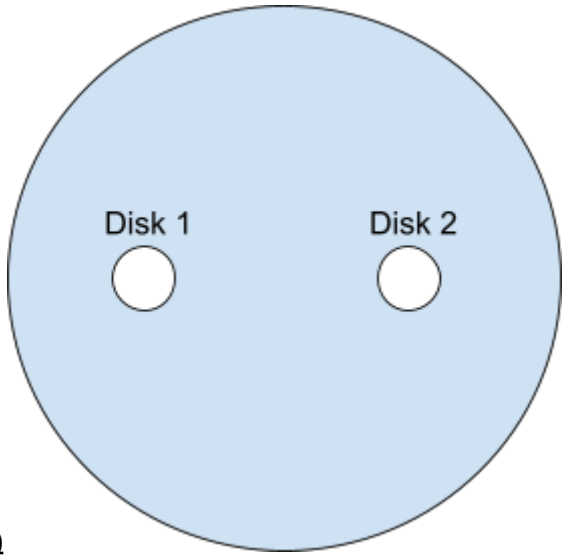
(Figure 1)

5. Rotate plate 60 degrees, repeat steps 3-4. Rotate plate 60 degrees again, repeat steps 3-4. Whole plate will be swabbed a total of 3 times. See diagram below (figure 2)



(Figure 2)

6. Using sterile tweezers, place 2 erythromycin disks on plate as shown in diagram below (figure 3).



(Figure 3)

7. Label, wrap, and incubate plates in WQRL incubator for 24 hours.
8. See full ASM protocol for more information