Sources:

<https://microbeonline.com/streak-plate-method-principle-purpose-procedure-results/>

<https://microbeonline.com/spread-plate-technique/>

<https://biocyclopedia.com/index/microbiology_methods/destructions_microorganisms/agar_disk_diffusion_method.php>

Streak plate technique

Spread plate technique

Disk diffusion method

Experiment procedure:

1. Agar is prepared
2. Pour agar into the sterile petri dish, let it hardened
3. For sample A, swab the surface of pen with medical swab, with swab on hand, do streak plate technique on agar. Repeat for three replication.
4. For sample B, swab the surface of the pen with L-shaped metal rod and evenly spread the sample over the surface, with the paper filter punchlets soaked in 70% isopropyl alcohol, place the punchlets in the quadrants.
5. For sample