

## Temporary storage and revive of microorganisms in cryotube.

A. the temporary storage and thaw of cryotube.

1. The cryotube can be stored between  $-20^{\circ}\text{C}$  ~  $-80^{\circ}\text{C}$ .
2. Prepare  $37^{\circ}\text{C}$  70% alcohol bath(**only use alcohol in electric water bath tank. No flame to avoid accident.** If using  $37^{\circ}\text{C}$  water for warming up, avoid microorganism contamination from the water bath.) prepare the cryotube rack in the tank and Immerse tubes **only to level of contents**.
3. Remove cryotube from the freeze tank and place in the cryotube tank in the  $37^{\circ}\text{C}$  water bath.
4. Agitate the cryotube until its contents have thawed completely(about 2 minutes).

B. Revive cultures: **in a sterile environment**

- 1.Using a sterile Pasteur pipette, transfer 50 $\mu\text{l}$  of bacteria from thawed vial to a **specific agar plate(the type of medium and the appropriate temperature are in the order form)**using streak procedure.
- 2.Incubate cultures under the **appropriate conditions**

C. Streak plate procedure:

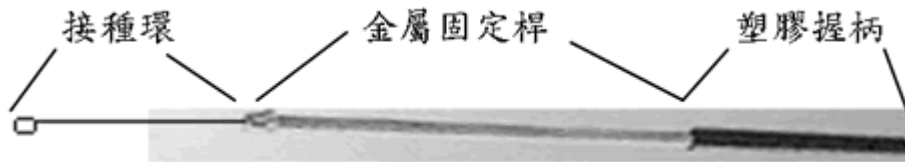
- 1.The inoculation loop is sterilized in a flame until it becomes red hot (about 5 cm),then back and force to flame the loop from the end of the handle (about 10cm from the end you are holding) to the tip of the loop. Wait about 10 sec then touch the loop to an uninoculated section of the agar to cool it. Insert your loop into the tube and remove some inoculums to streak from side of the plate to the center of the plate until cover 1/3 of the plate (area I).
2. Flame your loop again, and again touch it to an uninoculated section of plate to cool it. It should be placed on the last inoculation spot (area I), the dish rotated by  $90^{\circ}$  and again streak (area II).

3. Repeated in step 2. and complete the III and IV area.

4. Flame the inoculation loop again and put it away.

D. 圖示

(1) 金屬接種環



(2) 平板劃線法

